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Information Resources for Ferrets



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Information Resources for Ferrets

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PREFACE

The ferret (*Mustela putorius*) has become a fairly ubiquitous animal and is used or kept under various conditions. Ferrets are commonly kept as pets in the United States and are often exhibited in zoos for public viewing. Ferrets are also used in many areas of research. Ferrets share many anatomical, metabolic and physiologic features with humans which has promoted their use as an animal model. They are also used in a wide variety of research studies and demonstrations of medical procedures. Additional uses for them in research are constantly being found.

The references, citations and articles on ferrets in various databases is quite numerous and it is not practical to list all references found in various database searches. This bibliography contains “selected” literature citations on the ferret, covering a wide range of topics, from 6 different databases. When available, the NAL call number is provided for materials located at the National Agricultural Library. Selected web sites on ferrets are also included at the end of this publication.

This publication is a supplement to the following documents previously published by USDA, NAL, AWIC: (1) *Ferrets as Laboratory Animals: A Bibliography. September 1991.* (2) *Environmental Enrichment Information Resources for Laboratory Animals 1965-1995: Birds, Cats, dogs, Farm Animals, Ferrets, Rabbits & Rodents (AWIC Series no. 2).* These, and other publications, may be found on the AWIC web site at: www.nal.usda.gov/awic/pubs/awicpubs.htm

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Descriptors: poisoning, drug toxicity, differential diagnosis, adverse effects.

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Descriptors: anaesthesia, blood pressure, eyelids, isoflurane.

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Descriptors: anaesthesia, preanaesthetic, neuroleptics, injectable, inhaled, dosage.

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NAL call no: SF601.A5

Descriptors: anaesthesia, diazepam, respiration, heart rate, ketamine, drug combinations.

Comparison of anesthetic and cardiorespiratory effects of tiletamine-zolazepam-xylazine and tiletamine-zolazepam-xylazine-butorphanol in ferrets. 1998. Ko, J.C.H.; Nicklin, C.F.; Montgomery, T.; Kuo, WeiChen; Kuo, W.C. *Journal of the American Animal Hospital Association*, Mar./Apr.1998, v. 34 (2), p. 164-174. ref. ISSN: 0587-2781.

NAL call no: SF601.A5

Descriptors: effects, anesthesia, drug combinations, xylazine, respiration, heart rate.

Comparison of sedative and cardiorespiratory effects of diazepam, acepromazine, and xylazine in ferrets. 1998. Ko, J.C.H.; Nicklin, C.F.; Heaton, Jones T.G.; Kuo, W.C. *Journal of the American Animal Hospital Association*, May/Jun.1998, v.34 (3), p. 234-241. ref. ISSN: 0587-2781.

NAL call no: SF601.A5

Descriptors: diazepam, acepromazine, xylazine, pharmacology, blood pressure, cardiovascular system, respiratory gases, haemoglobin, carbon dioxide.

Evaluation of sedative and cardiorespiratory effects of diazepam-butorphanol, acepromazine-butorphanol, and xylazine-butorphanol in ferrets. 1998. Ko, J.C.H. *Journal of the American Animal Hospital Association*, May/Jun.1998, v. 34 (3), p. 242-250. ref. ISSN: 0587-2781.

NAL call no: SF601.A5

Descriptors: immobilization, cardiovascular system, heart rate, respiratory gases, blood pressure, respiration rate, blood gases, drug combinations.

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Descriptors: immobilization, anesthesia, *Mustela nigripes*.

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NAL call no: 41.8 AM3A

Descriptors: anaesthesia, haematology, haemoglobin, haematocrit, technetium.

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NAL call no: SF601.A5

Descriptors: efficacy, ketamine, drug combinations, analgesics, anaesthetics.

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NAL call no: SF405.5.A23

Descriptors: laboratory animals, anesthetics, ketamine, xylazine, dosage, effects.

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Descriptors: restraint, rabbits, rats, gerbils, ferrets, hamsters, guinea pigs.

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NAL call no: 410.9.P94
Descriptors: ferrets, ketamine, xylazine, yohimbine, anesthesia, duration, heart rate.

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NAL call no: 410.9.P94
Descriptors: laboratory animals, immobilization, injectable anaesthetics.

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NAL call no: SF407.F39B56
Descriptors: ferrets, anesthesia, injections, anesthetics, surgery, immunization.

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Descriptors: adenovirus, vaccines, cloning vectors, immunology.
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NAL call no: 389.8.J82
Descriptors: beta-carotene, isomers, availability, animal models.
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NAL call no: 447.8 AM3
Descriptors: retinol, beta-carotene, absorption, models, uptake, lymph.

Evaluation of *Campylobacter jejuni* colonization of the domestic ferret intestine as a model of proliferative colitis. 1991. Bell, J.A.; Manning, D.D. *American Journal of Veterinary Research*, Jun. 1991, v. 52 (6), p. 826-832. ref. ISSN: 0002-9645.

NAL call no: 41.8.AM3A

Descriptors: disease models, intestines, colitis, pathogenesis, colonization.

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NAL call no: QL55.A1L3

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Descriptors: ferrets, animal models, tubes, larynx, trauma, training.

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NAL call no: 410.9.P94

Descriptors: medical research, ferrets, equipment blood vessels, blood pressure, models.

Guidelines for the use of the ferret as a model for pediatric endotracheal intubation training. 1989. Powell, Douglas A.; Gonzales, Carlos. Dept. of Laboratory Animal Medicine, Uniformed Services University of the Health Sciences, 1989, 13 p. (1) leaves. ill. ref.

NAL call no: SF407.F39P6

Descriptors: animal models in research, trachea, intubation, laboratory animals.

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NAL call no: SF407.F39B56

Descriptors: ferrets, viral diseases, disease models, immunization.

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Descriptors: ferrets, animal experiments, vision.

AUDITORY / HEARING

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Descriptors: development, nervous system, sense organs, auditory cortex.

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Descriptors: nervous system, sense organs, ear, acoustical properties.

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Descriptors: nervous system, primary auditory cortex, stimulation.

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Descriptors: cochlea, bilateral lesions, sensory system, nervous system.

Effects of altering spectral cues in infancy on horizontal and vertical sound localization by adult ferrets. 1999. Parsons, C.H.; Lanyon, R.G.; Schnupp, J.W.H.; King, A.J. *Journal of Neurophysiology*, 1999, v. 82 (5), p. 2294-2309. ISSN: 0022-3077.

Descriptors: auditory stimuli, vestibular system, pinna, localization, spectral cues.

Improved auditory spatial acuity in visually deprived ferrets. 1999. King, Andrew J.; Parsons, Carl H. *European Journal of Neuroscience*, Nov. 1999, v. 11 (11), p. 3945-3956. ISSN: 0953-816X.

Descriptors: nervous system, sense organs, auditory spatial acuity.

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Descriptors: brain stem auditory, superior colliculus.

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Descriptors: superior colliculus, auditory stimulus, cues, outer ear.

- Callosal connections of the ferret primary auditory cortex.** 1997. Wallace, M.N.; Harper, M.S. *Experimental Brain Research*, 1997, v. 116 (2), p. 367-374. ISSN: 0014-4819.
Descriptors: cortex auditory, corpus callosum, connections.
- Deoxyglucose uptake in the ferret auditory cortex.** 1997. Wallace, M.N.; Roeda, D.; Harper, M.S. *Experimental Brain Research*, 1997, v. 117 (3), p. 488-500. ISSN: 0014-4819.
Descriptors: cortex auditory, 2 deoxy-D-glucose, ectosylvian gyrus.
- Response properties on neurons in the inferior colliculus of the monaurally deafened ferret to acoustic stimulation of the intact ear.** 1997. McAlpine, D.; Martin, R.L.; Mossop, J.E.; Moore, D.R. *Journal of Neurophysiology*, 1997, v. 78 (2), p. 767-779. ISSN: 0022-3077.
Descriptors: inferior colliculus, ear, auditory stimulus, deafness.
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NAL call no: QP351.B45
Descriptors: lesions, cortex auditory, auditory perception, auditory processing.
- Lateral superior olive projections to the inferior colliculus in normal and unilaterally deafened ferrets.** 1995. Moore, D.R.; Russell, F.A.; Cathcart, N.C. *Journal of Comparative Neurology*, 1995, v. 357 (2), p. 204-216. ISSN: 0021-9967.
Descriptors: lateral superior olivary complex, projections, inferior colliculus, deafness.
- Multi-electrode array for measuring evoked potentials from surface of ferret primary auditory cortex.** 1995. Owens, A.L.; Denison, T.J.; Versnel, H.; Rebbert, M.; Peckerar, M.; Shamma, S.A. *Journal of Neuroscience Methods*, May 1995, v. 58 (1-2), p. 209-220. ISSN: 0165-0270.
Descriptors: auditory cortex, physiology, acoustic stimulation, electric stimulation.
- Influence of callosal activity on units in the auditory cortex of ferret (*Mustela putorius*).** 1994. Kitzes, L.M.; Doherty, D. *Journal of Neurophysiology*, May 1994, v. 71 (5), p. 1740-1751. ill. ISSN: 0022-3077.
Descriptors: brain, neurons, Callosal neurons, auditory cortex.
- Monaural and binaural spectrum level cues in the ferret: Acoustics and the neural representation of auditory space.** 1994. Carlile, S.; King, A.J. *Journal of Neurophysiology*, Feb. 1994, v. 71 (2), p. 785-801. ISSN: 0022-3077.
Descriptors: auditory pathways, physiology, ear, perception, brain pathways.
- Response of neurons in the ferret superior colliculus to the spatial location of tonal stimuli.** 1994. King, A.J.; Carlile, S. *Hearing Research*, 1994, v. 81 (1-2), p. 137-149. ISSN: 0378-5955.
Descriptors: superior colliculus, pinna, sound localization, spatial discrimination.
- Sound localization after unilateral lesions of inferior colliculus in the ferret (*Mustela putorius*).** 1994. Kelly, J.B.; Kavanagh, G.L. *Journal of Neurophysiology*, Mar. 1994, v. 71 (3), p. 1078-1087. ISSN: 0022-3077.
Descriptors: appetitive behavior, attention physiology, auditory cortex, brain mapping.

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 Descriptors: hearing loss, animal models, cochlea, brain stem, auditory system.
- Eustachian tube function in the ferret.** 1993. Buchman, C.A.; Doyle, W.J.; Swarts, J.D. *Acta Otolaryngologica*, Jan. 1993, v. 113 (1), p. 75-80. ISSN: 0001-6489.
 Descriptors: Eustachian tube physiology, ferrets physiology, disease models.
- Organization of response areas in ferret primary auditory cortex.** 1993. Shamma, S.A.; Fleshman, J.W.; Wiser, P.R.; Versnel, H. Feb. 1993, *Journal of Neurophysiology*, v. 69 (2), p. 367-383. ill. ISSN: 0022-3077.
 Descriptors: brain, sound reception, primary auditory cortex.
- Midline and lateral field sound localization in the ferret (*Mustela putorius*): Contribution of the superior olivary complex.** 1992. Kavanagh, G.L.; Kelly, J.B. *Journal of Neurophysiology*, 1992, v. 67 (6), p. 1643-1658. ill. ISSN: 0022-3077.
 Descriptors: brain, sound localization, superior olivary complex, sound reception.

BACTERIA

- Disseminated *Mycobacterium celatum* (type 3) infection in a domestic ferret (*Mustela putorius furo*).** 2001. Valkeim, M.; Djonne, B.; Heiene, R.; Caugant, D.A. *Veterinary Pathology*, Jul. 2001, v. 38 (4), p. 460-463. ISSN: 0300-9858.
 NAL call no: 41.8 P27
 Descriptors: mycobacterium, ferret, histopathology, disseminated infections.
- Bacterial infectious diseases in small mammals.** 2000. Rosenthal, K. *Proceedings of the North American Veterinary Conference: Eastern States Veterinary Association*, 2000, v.14, p. 1019-1020. Jan. 15-19, 2000, Orlando, FL.
 NAL call no: SF605.N672
 Descriptors: bacterial diseases, ferrets, rabbits, rodents.
- Intracellular survival of virulent *Mycobacterium bovis* and *M. bovis* BCG in ferret macrophages.** 1999. Cross, M.L.; Aldwell, F.E.; Griffin, J.F.T.; Macintosh, C.G. *Veterinary Microbiology*, 1999, v. 66 (3), p. 235-243. ref. ISSN: 0378-1135.
 Descriptors: macrophages, bacterial diseases, cell lines, survival.

BIOLOGY

- The vomeronasal organ of the male ferret.** 1999. Weiler, E.; Apfelbach, R.; Farbman, A.I. *Chemical Senses*, 1999, v. 24 (2), p. 127-136. ref. ISSN: 0379-864X.
 Descriptors: anatomy, olfactory organs, vomeronasal organ.

Biology and Diseases of the Ferret. 2nd ed. 1998. Fox, James. Philadelphia: Lippincott-Williams and Wilkins. Jul. 1998. xiv. 568 p. ill. ISBN: 0683300342.

NAL call no: SF407.F39B56 1998

Descriptors: ferrets as laboratory animals, diseases, ferrets.

Biology and medicine of the domestic ferret: An overview. 1994. Carpenter, J.W.; Harms, C.A.; Harrenstein, L. *Journal of Small Exotic Animal Medicine*, 1994, v. 2 (4), p. 151-162. ref.

Descriptors: diagnosis, physiology, nutrition, restraint, anaesthesia, diseases.

Biology and management of the domestic ferret. 1991. Kansas State University, College of Veterinary Medicine. 1 videocassette (17 min.). sd. col.

NAL call no: Videocassette no. 1571

Descriptors: husbandry, history, nutrition, housing, reproduction.

Biology and Diseases of the Ferret. 1988. Fox, James. G. Philadelphia: Lea and Febiger. 1988. xii. 345 p. ill. ISBN: 0812111397

NAL call no: SF407.F39B56

Descriptors: ferrets as laboratory animals, ferret diseases.

Normal clinical and biologic parameters. 1988. Fox, J.D. *Biology and Diseases of the Ferret*. James D. Fox (Ed.). Philadelphia: Lea and Febiger, 1988, p. 159-173. ref. ISBN: 0812111397.

NAL call no: SF407.F39B56

Descriptors: ferrets, immune response, hematology, drugs metabolism, semen.

An olfactory recognition system in the ferret, *Mustela furo* L. (Carnivora Mustelidae). 1988. Clapperton, B.K.; Minot, E.O.; Crump, D.R. *Animal Behaviour*, Apr. 1988, v. 36 (2), p. 541-553. ref. ISSN: 0003-3472.

NAL call no: 410.B77

Descriptors: ferrets, olfactory stimulation, odors, recognition.

The physiology of the ferret. 1988. Andrews, P.L.R. *Biology and Disease of the Ferret*. James D. Fox (Ed.). Philadelphia: Lea and Febiger, 1988, p. 100-134. ref. ISBN: 0812111397.

NAL call no: SF407.F39B56

Descriptors: physiology, endocrinology, nervous system, cardiovascular system

Taxonomy, history and use. 1988. Fox, J.D. *Biology and Diseases of the Ferret*. James D. Fox (Ed.). Philadelphia: Lea and Febiger, 1988, p. 3-13. ill. ref. ISBN: 0812111397.

NAL call no: SF407.F39B56

Descriptors: taxonomy, medical research, history, production.

Biology and medicine of the ferret. 1987. Besch, Williford C.L. *Veterinary Clinics of North America: Small Animal Practice*, Sept. 1987, v. 17 (5), p. 1155-1183. ref. ISSN: 0185-5616.

NAL call no: SF601.V523

Descriptors: ferrets, animal husbandry, drug therapy, diseases, vaccines.

Biology and diseases of ferrets. 1984. Bernard, S.L.; Gorham, J.R.; Ryland, L.M. *Laboratory Animal Medicine*, J.G. Fox (Ed.). Academic Press, 1984, p. 385-397. ill. ISBN: 0122636201.

NAL call no: SF996.5.L33

Descriptors: ferrets, laboratory rearing, diseases, biology.

BLACK - FOOTED FERRETS

- Enterotoxigenic Escherichia coli infection in captive black-footed ferrets.** 2001. Bradley, Gregory A.; Orr, Kathy; Reggiardo, Carlos; Glock, Robert D. *Journal of Wildlife Diseases*, Jul. 2001, v. 37 (3), p. 617-620. ISSN: 0090-3558.
Descriptors: bacterial disease, E. Coli infection, foods.
- Age-dependent changes in sperm production, semen quality, and testicular volume in the black-footed ferret (*Mustela nigripes*).** 2000. Wolf, K.N.; Wildt, D.E.; Vargas, A.; Marinari, P.E.; Kreeger, J.S.; Ottinger, M.A.; Howard, J.G. *Biology of Reproduction*, Jul. 2000, v. 63 (1), p. 179-187. ISSN: 0006-3363.
NAL call no: QL876.B5
Descriptors: sperm, testis, seminal fluid, semen quality, age dependent changes.
- Fossils, diet, and conservation of black-footed ferrets (*Mustela nigripes*).** 2000. Owen, Pamela R.; Bell, Christopher J.; Mead, Emilee M. *Journal of Mammalogy*, May 2000, v. 81 (2), p. 422-433. ill. ISSN: 0022-2372.
NAL call no: 410.J823
Descriptors: predators, prey, relationship.
- Reproductive inefficiency in male black-footed ferrets (*Mustela nigripes*).** 2000. Wolf, K.N.; Wildt, D.E.; Vargas, A.; Marinari, P.E.; Ottinger, M.A.; Howard, J.G. *Zoo Biology*, 2000, v. 19 (6), p. 517-528. ISSN: 0733-3188.
NAL call no: QL77.5.Z6
Descriptors: reproduction, breeding, reproductive failure.
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Descriptors: animal models, triacylglycerol lipase, milk, fats, digestion.
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NAL call no: 41.8 J82

Descriptors: experimental infection, susceptibility, *Mycobacterium*, pathogenesis.

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NAL call no: QR369.J6

Descriptors: maternal antibody protection, vaccine, hemagglutinin.

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NAL call no: SF601.V523
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- Update on ferret adrenal gland disease.** 1998. Hofer, H.L. *Proceedings of the North American Veterinary Conference*, Jan. 10-14, 1998, v. 12, p. 835-836. ref.
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Descriptors: plasma, diagnosis, adrenal glands, surgery, steroids, androgen, oestrogen.
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Descriptors: digestive system diseases, infectious diseases, foreign bodies, diagnosis.
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NAL call no: SF605.N672
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Descriptors: pyoderma, staphylococcus, exotoxins, dermatitis, histopathology.
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NAL call no: SF605.N672
Descriptors: heart disease.
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Descriptors: ferrets, gastrointestinal diseases.
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NAL call no: SF605.N672
Descriptors: symptoms, diagnosis, treatment.
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NAL call no: SF605.N672
Descriptors: pH, noninfectious diseases, ferrets.
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NAL call no: 41.8 V641
Descriptors: skin diseases, otitis, mixed infections, ear diseases, mycosis, diagnosis.
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NAL call no: SF605.N672
Descriptors: ferrets, adrenal gland diseases.
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NAL call no: QL55.I5
Descriptors: Aleutian disease, laboratory animals, diagnosis, outbreaks.
- Copper toxicosis in sibling ferrets.** 1994. Fox, J.G.; Zeman, D.H.; Mortimer, J.D. *Journal of the American Veterinary Medical Association*, 1994, v. 205 (8), p. 1154-1156. ref. ISSN: 0003-1488.
NAL call no: 41.8 AM3
Descriptors: poisoning, copper, metabolic disorders, mammals.
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NAL call no: 41.8 AM3
Descriptors: alopecia, estradiol, blood serum, adrenal glands, neoplasms.
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NAL call no: SF901.V47
Descriptors: skin diseases, alopecia, carcinoma, adrenal glands, symptoms, treatment.
- Gastric disease in ferrets: Effects of *Helicobacter mustelae*, nitrosamines and reconstructive gastric surgery.** 1994. Fox, J.G. *European Journal of Gastroenterology and Hepatology*, Dec. 1994, v. 6 (Suppl. 1), p. S57-65. ISSN: 0954-691X.
Descriptors: stomach neoplasms, pathology, disease models, gastritis.
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NAL call no: 41.9 AM3
Descriptors: mycobacterium avium, enteritis, symptom, granuloma.
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NAL call no: QR46.J6

Descriptors: ferrets, intestinal diseases, Desulfovibrio.

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Descriptors: case reports, blood disorders.

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NAL call no: QR360.A1J6

Descriptors: proteins, experimental infections, spongiform encephalopathy.

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NAL call no: 41.8 V641

Descriptors: aleutian disease, diagnosis, symptoms, histopathology.

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NAL call no: 41.8 P27

Descriptors: clostridium perfringens, gastroenteritis, histopathology, diet.

Hyperadrenocorticism associated with adrenocortical tumor or nodular heperplasia of the adrenal gland in ferrets: 50 cases (1987-1991). 1993. Rosenthal, K.L.; Peterson, M.E.; Quesenberry, K.E.; Hillyer, E.; Beeber, N.L.; Moroff, S.D.; Lothrop, C.D. *Journal of the American Veterinary Medical Association*, Jul. 15, 1993, v. 203 (2), p. 271-275. ref. ISSN: 0003-1488.

NAL call no: 41.8 AM3

Descriptors: adrenal glands, cushing's syndrome, neoplasms, symptoms, diagnosis.

Lymphoplasmacytic keratitis in a ferret with lymphoma. 1993. Ringle, M.J.; Lindley, D.M.; Krohne, S.G. *Journal of the American Veterinary Medical Association*, Sept. 1, 1993, v. 203 (5), p. 670-672. ref. ISSN:0003-1488.

NAL call no: 41.8 AM3

Descriptors: lymphoma, keratitis, symptoms, diagnosis, drug therapy.

Megaesophagus in a domestic ferret. 1993. Harms, C.A.; Andrews, G.A. *Laboratory Animal Science*, Oct. 1993, v. 43 (5), p. 506-508. ref. ISSN: 0023-6764.

NAL call no: 410.9 P94

Descriptors: ferrets, esophageal diseases.

Unilateral adrenalectomy as a treatment for adrenocortical tumors in ferrets: Five cases (1990-1992). 1993. Lawrence, H.J.; Gould, W.J.; Flanders, J.A.; Rowland, P.H.; Yeager, A.E. *Journal of the American Veterinary Medical Association*, Jul. 15, 1993, v. 203 (2), p. 267-270. ref. ISSN:

0003-1488.

NAL call no: 41.8 AM3

Descriptors: adrenal cortex, adenoma, carcinoma.

Diseases of ferrets. 1992. Taylor, M. *Veterinary Technician*, 1992, v. 13 (1), p. 56, 58, 60. ref. ISSN: 8750-8990.

Descriptors: viral diseases, bacterial diseases, endocrine diseases, neoplasms.

Gastrointestinal diseases of ferrets (*Mustela putorius furo*). 1992. Hillyer, E.V. *Journal of Small Exotic Animal Medicine*, 1992, v. 2 (1), p. 44-45. ill.

Descriptors: digestive system, parasites diseases, disorders, ferret,

Bilaterally symmetric alopecia associated with an adrenocortical adenoma in a pet ferret. 1991. Scott, D.W.; Harvey, H.J.; Yeager, A.E. *Veterinary Dermatology*, 1991, v. 2 (3-4), p. 166-170. ref. ISSN: 0959-4493.

NAL call no: SF901.V47

Descriptors: alopecia, adenoma, skin diseases, adrenal glands, surgical operations.

Effect of sodium pyridinethione on the tissue-disposition of nickle in rats, guinea pigs and ferrets. 1991. Borg, Neczak, K.; Tjalve, H. *Acta Veterinaria Scandinavica*, 1991, Supplementum 87, p. 353-355. Proceedings of the 5th Congress of the European Association for Veterinary Pharmacology and Toxicology, Copenhagen, Denmark, Aug. 18-22, 1991. ref. ISSN: 0044-605X.

Descriptors: antifungal agents, metals, tissues, nickle, experiments, ferrets.

Experimental infection of domestic ferrets (*Mustela putorius furo*) and Siberian polecats (*Mustela ermine*) with *Yersinia pestis*. 1991. Williams, E.S.; Thorne, E.T.; Quan, T.J.; Anderson, S.L. *Journal of Wildlife Diseases*, 1991, v. 27 (3), p. 441-445. ref. ISSN: 0090-3558.

NAL call no: 41.9 W64B

Descriptors: experimental infection, epidemiology, bacterial diseases, ferrets, polecats.

***Helicobacter mustelae*-induced gastritis and elevated gastric pH in the ferret (*Mustela putorius furo*).** 1991. Fox, J.G.; Otto, G.; Taylor, N. S.; Rosenblad, W.; Murphy, J.C. *Infection and Immunity*, Jun. 1991, v. 59 (6), p. 1875-1880. ref. ISSN: 0019-9567.

NAL call no: QR1.I57

Descriptors: campylobacter, gastritis, stomach, pH, disease models.

Skin diseases of ferrets. 1990. Cooper, J.E. *Veterinary Annual*, 1990, no. 30, p. 325-334. ref. ISSN: 0083-5870.

NAL call no: 41.8 V6456

Descriptors: skin diseases, ferrets.

Canine parainfluenza virus-induced encephalitis in ferrets. 1989. Baumgartner, W.; Krakowka, S.; Gorham, J.R. *Journal of Comparative Pathology*, Jan. 1989, v. 100 (1), p. 67-76. ill. ref. ISSN: 0021-9975.

NAL call no: 41.8 J82

Descriptors: ferrets, canine parainfluenza virus, encephalitis, histopathology.

- Proven of potential zoonotic diseases in ferrets.** 1989. Marini, R.P.; Adkins, J.A.; Fox, J.G. *Journal of the American Veterinary Medical Association*, Oct. 1989, v. 195 (7), p. 990-994. ref. ISSN: 0003-1488.
NAL call no: 41.8 AM3
Descriptors: zoonoses, ferrets, bacterial diseases, viral diseases, protozoal infections.
- Proliferative colitis in ferrets: Epithelial dysplasia and translocation.** 1989. Fox, J.G.; Murphy, J.C.; Otto, G.; Pecquet-Goad, M.E.; Lawson, G.H.K.; Scott, J. A. *Veterinary Pathology*, Nov. 1998, v. 26 (6), p. 515-517. ill. ref. ISSN: 0300-9858.
NAL call no: 41.8 P27
Descriptors: ferrets, colitis, campylobacter, histopathology, metastasis, dysplasia.
- Zygomatic salivary gland mucocele in ferret.** 1989. Miller, P.E.; Pickett, J.P. *Journal of the American Veterinary Medical Association*, May 15, 1989, v. 194 (10), p. 1437-1438. ill. ref. ISSN: 0003-1488.
NAL call no: 41.8 AM3
Descriptors: ferrets, salivary glands, cysts, trauma, surgical operations.
- Bacterial and mycoplasmal diseases.** 1988. Fox, J.G. *Biology and Diseases of the Ferret*, ed. by James G. Fox. Philadelphia: Lea & Febiger, 1988, p. 197-216. ill. ISBN: 0812111397.
NAL call no: SF407.F39B56
Descriptors: ferrets, bacterial diseases, mycoplasma, epizootiology, diagnosis.
- Common disease and medical management of ferrets.** 1988. Burke, T.J. *Contemporary Issues in Small Animal Practice*, 1988, v. 9, p. 247-260. ref. ISSN: 0891-9747.
NAL call no: SF601.C64
Descriptors: ferrets, animal husbandry, diseases, infectious diseases, treatment.
- Diseases associated with reproduction.** 1988. Fox, J.G.; Pearson, R.C.; Gorham, J.R. *Biology and Diseases of the Ferret*, ed. by James G. Fox. Philadelphia: Lea & Febiger, 1988, p. 174-183. ill. ISBN: 0812111397.
NAL call no: SF407.F39B56
Descriptors: ferrets, reproductive disorders, bacterial diseases, histopathology.
- Mycotic diseases.** 1988. Fox, J.G. *Biology and Diseases of the Ferret*, ed. by James G. Fox. Philadelphia: Lea & Febiger, 1988, p. 248-254. ill. ISBN: 0812111397.
NAL call no: SF407.F39B56
Descriptors: ferrets, mycoses, etiology, cryptococcus, histoplasma, diagnosis.
- Pruritus in rabbits, rodents and ferrets.** 1988. Timm, K.I. *Veterinary Clinics of North America: Small Animal Practice*, Sept. 1988, v. 18 (5), p. 1077-1091. ref. ISSN: 0195-5616.
NAL call no: SF601.V523
Descriptors: pruritus, mites, rabbits, rodents, ferrets, laboratory animals.
- Viral and chlamydial diseases.** 1988. Fox, J.G.; Pearson, R.C.; Gorham, J.R. *Biology and Diseases of the Ferret*, ed. by James G. Fox. Philadelphia: Lea & Febiger, 1988, p. 217-234. ill. ISBN: 0812111397.

NAL call no: SF407.F39B56

Descriptors: ferrets, viral diseases, mycoplasma, diagnosis, treatment.

Clinical, functional and pathologic changes associated with a case of dilatative cardiomyopathy in a ferret. 1987. Lipman, N.S.; Murphy, J.C.; Fox, J.G. *Laboratory Animal Science*, Apr. 1987, v. 37 (2), p. 210-212. ill. ref. ISSN: 0023-6764.

NAL call no: 410.9. P94

Descriptors: ferrets, cardiomyopathy, histopathology.

The ferret and its diseases. 1978. Ryland, L.M.; Gorham, J.R. *Journal of the American Veterinary Medical Association*, Nov. 1, 1978, v. 173 (9), p. 1154-1158. ref. ISSN: 0003-1488.

NAL call no: 41.8 AM3

Descriptors: ferrets, animal diseases, animal housing, animal feeding.

Ringworm in mink and ferrets. 1972. Hagen, K.W.; Gorham, J.R. *Reprints of Articles by U.S. Department of Agriculture, Agricultural Research Service*, 1972, [345]. 2p. ill. ref.

NAL call no: aS21.A8U5/ARS

Descriptors: mink, ferrets, microsporum canis.

The transmission of distemper among ferrets and mink. 1953. Gorham, J.R.; Brandly, C.A. *Proceedings of the Annual Meeting of the American Veterinary Medical Association*, 1953 (90th) p. 129-141. ref.

NAL call no: 41.9 UN3

Descriptors: distemper virus, disease transmission, ferrets, mink.

Salmonella infections in mink and ferret. 1949. Gorham, J.R. *American Journal of Veterinary Research*, Apr. 1949, v. 10 (35), p. 183-192. ref. ISSN: 0002-9645.

NAL call no: 41.8 AM3A

Descriptors: ferrets, salmonella, disease resistance, susceptibility, salmonellosis.

EMESIS

Anti-emetic effect of (-) tramadol. 2002. Huckle, R.M.; Tuladhar, B.R.; Naylor, R.J. *British Journal of Pharmacology*, Mar. 2002, v. 135 (Proceedings Suppl.), 362 p. ISSN: 0007-1188. www.bripharmacol.org/.

Descriptors: digestive system, pharmacology, biochemistry, molecular biophysics.

Action of glucocorticoids to antagonise cisplatin-induced acute and delayed emesis in the ferret. 2001. Sam, Tasia, S.W.; Chan, Shun, W.; Rudd, John A.; Yeung, John H.K. *European Journal of Pharmacology*, Apr. 13, 2001, v. 417 (3), p. 231-237. ISSN: 0014-2999.

Descriptors: emesis, cisplatin induced, digestive system disease.

Central antiemetic effects of AS-8112, a dopamine D2, D3, and 5-HT3 receptor antagonist, in ferrets. 2001. Yoshikawa, Takashi; Yoshida, Naoyuki; Oka, Makoto. *European Journal of Pharmacology*, Nov. 23, 2001, v. 431 (3), p. 361-364. ISSN: 0014-2999.

Descriptors: emesis, digestive system disease, ferret, antiemetic drug.

The effects of diphenidol on drug-induced emesis in the dog and ferret. 2001. Sawai, Hiroe; Yamakuni, Hisashi; Maeda, Yasue; Imazumi, Katsunori; Matsuo, Masahiko; Manda Toshitaka; Goto, Toshio. *Japanese Journal of Pharmacology*, 2001, v. 85 (Supplement 1): 106 p. ISSN: 0021-5198.

Descriptors: pica, behavioral and mental disorders, emetic inducing agent.

Effects of tropisetron, a 5-HT₃ receptor antagonist, on delayed emesis induced by cisplatin in ferrets. 2001. Endo, Toru; Ogawa, Takashi; Kamada, Yuko; Hamaue, Naoya; Hirafuji, Masahiko; Yokoyama, Toshide; Nosaka, Chihiro; Minami, Masaru. *Japanese Journal of Pharmacology*, 2001, v. 85 (Supplement 1): 108 p. ISSN: 0021-5198.

Descriptors: digestive system, pharmacology, ferret.

The mechanism of emesis mediated by tachykinin NK-1 receptors in ferrets. 2001. Nago, Sachiko; Saito, Ryo; Sato, Asako; Ariumu, Hideto; Hatae, Takashi; Honda, Kenji; Takano, Yukio; Kamiya, Hiro O. *Japanese Journal of Pharmacology*, 2001. V. 85 (Supplement 1): 261 p. ISSN: 0021-5198.

Descriptors: emesis, digestive system disease, nervous system, ferret.

PDE4 inhibitors induce emesis in ferrets via a noradrenergic pathway. 2001. Robichaud, A.; Savoie, C.; Stamatiou, P.B.; Tattersall, F.D.; Chan, C.C. *Neuropharmacology*, Jan. 4, 2001, v. 40 (2), p. 262-269. ISSN: 0028-3908.

Descriptors: emesis, digestive system disease, ferrets.

Central nausea circuits revealed by expression of the immediate-early gene c-fos in the ferret. 2000. Billig, I.; Yates, B.J.; Rinaman, L. *FASEB Journal*, Mar. 15, 2000, v. 14 (4), p. A570. ISSN: 0892-6638.

NAL call no: QH301.F3

Descriptors: nausea, nervous system, ferret, forebrain, hindbrain.

Induction of emesis in ferrets by 2,2'-azobis (2-amidinopropane) dihydrochloride, a free radical initiator. 2000. Tong, Chunng; Tsuchiyama, Michio; Okazaki, Isamu; Ito, Akihito; Tsuji, Saori; Ishii, Kenji; Suzuki, Jun. *Japanese Journal of Pharmacology*, 2000, v. 82 (Suppl. 1): 226 p. ISSN: 0021-5198.

Descriptors: digestive system, pharmacology, ferrets, ingestion, antiemetic drug.

The role of tachykinin NK-1 receptors in the area postrema of ferrets in emesis. 2000. Ariumi, H.; Saito, R.; Nago, S.; Hyakusoku, M.; Takano, Y.; Kamiya, H.O. *Neuroscience Letters*, 2000, v. 286 (2), p. 123-126. ISSN: 0304-3940.

Descriptors: morphine, vomiting, area postrema, neurokinin NK1 receptors.

The role of tachykinin NK-1 receptor in the area postrema in nausea of rats and vomiting of ferrets. 2000. Nago, S.; Saito, R.; Kubota, H.; Ariumi, H.; Sato, A.; Takano, Y.; Kamiya, H. *Society for Neuroscience Abstracts*, 2000, v. 26 (1-2): Abstract no. 808.8. ISSN: 0190-5295.

Descriptors: emesis, digestive system disease, pica.

Conditioned antisickness: Indirect evidence from rats and direct evidence ferrets that conditioning alleviates drug-induced nausea and emesis. 1998. Davey, V.A.; Biederman, G.B. *Journal of Experimental Psychology: Animal Behavior Processes*, 1998, v. 24 (4), p. 483-491. ISSN: 0097-7403.

Descriptors: nausea, lithium, vomiting, conditioning, pentobarbital, sickness behavior.

- The actions of ondansetron and dexamthasone to antagonise cisplatin-induced emesis in the ferret.** 1997. Budd, J.A.; Naylor, R.J. *European Journal of Pharmacology*, Mar. 12, 1997, v. 322 (1), p. 79-82. ISSN: 0014-2999.
Descriptors: behavior, drug effects, vomiting, antiemetics.
- Biphasic emetic response of cyclophosphamide in the ferret.** 1997. Wong, R.H.; Lao, L.; Berman, B.M.; Carter, A.K.; Wynn, R.L. *Pharmacology, Biochemistry and Behavior*, 1997, v. 58 (1), p. 179-182. ISSN: 0091-3057.
Descriptors: nausea, vomiting, antiemetics, droperidol, cyclophosphamide.
- Tachykinin NK sub(1) receptor antagonists act centrally to inhibit emesis induced by the chemotherapeutic agent cisplatin in ferrets.** 1996. Tattersall, F.D.; Rycroft, W.; Francis, B.; Pearce, D.; Merchant, K.; MacLeod, A. *Neuropharmacology*, 1996, v. 35 (8), p. 1121-1129. ISSN: 0028-3908.
Descriptors: neurokinin NK1 receptors, emesis, cisplatin, ferrets.
- Electroacupuncture reduces morphine-induced emesis in ferrets: A pilot study.** 1995. Lao, L.; Wong, R.H.; Berman, B.; Wynn, R.L. *Journal of Alternative and Complementary Medicine*, Fall, 1995, v. 1 (3), p. 257-261. ISSN: 1075-5535.
Descriptors: disease models, ferret, vomiting, therapy, chemically induced.
- Behavioral studies of emetic sensitivity in the ferret.** 1993. Knox, A.P.; Strominger, N.L.; Battles, A.H.; Carpenter, D.O. *Brain Research Bulletin*, 1993, v. 31 (5), p. 477-484. ISSN: 0361-9230.
Descriptors: emetics, apomorphine, behavior, drug effects.
- Morphine 6-glucuronide: A metabolite of morphine with greater emetic potency than morphine in the ferret.** 1992. Thompson, P.I.; Bingham, S.; Andrews, P.L.R.; Patel, N.; Joel, S.F.; Slevin, M.L. *British Journal of Pharmacology*, 1992, v. 106 (1), p. 3-8.
Descriptors: emetics, morphine 6-glucuronide, metabolites, pharmacokinetics,
- Relationship between vomiting and taste aversion learning in the ferret: Studies with ionizing radiation, lithium chloride, and amphetamine.** 1992. Rabin, B.M.; Hunt, W.A. *Behavioral Neurology and Biology*, 1992, v. 58 (2), p. 83-93.
Descriptors: taste aversion, learning, vomiting, amphetamine, ferret.

ENRICHMENT

- Assessing spatial activity in captive feral ferrets, *Mustela furo* L. (Carnivora: Mustelidae).** 2000. Medina, Vogel G.; Hickling, G.J.; Clapperton, B.K. *New Zealand Journal of Zoology*, Jun. 2000, v. 27 (2), p. 75-83. ill. ISSN: 0301-4223.
Descriptors: behavioral techniques, social behavior, spatial and social activity.
- Common enrichment devices and programs.** 1995. AWIC Resource Series no. 2. *Environmental Enrichment Information Resources for Laboratory Animals, 1965-1995, Birds, Cats, Dogs, Farm Animals, Ferrets, Rabbits, and Rodents*, p. 243-246. USDA, NAL, AWIC. ISBN: 090076791X.

NAL call no: aHV4701.A94-no.2

Descriptors: toys, enrichment, animal welfare, products.

The effects of environmental enrichment in ferrets. 1995. Einon, D. *Environmental Enrichment Information Resources for Laboratory Animals: 1965-1995: Birds, Cats, Dogs, Farm Animals, Ferrets, Rabbits, and Rodents*. p. 113-116. ISBN: 090076791X.

NAL call no: aHV4701.A94 no. 2

Descriptors: ferrets, enrichment, animal welfare, laboratory animals.

Environmental enrichment information resources for laboratory animals, 1965-1995: birds, cats, dogs, farm animals, ferrets, rabbits and rodents. 1995. UFAW Staff. 294 p. ISBN: 090076791X.

NAL call no: aHV4701.A94-no.2.

Suppliers and products. 1995. AWIC Resource Series no. 2. *Environmental Enrichment Information Resources for Laboratory Animals, 1965-1995, Birds, Cats, Dogs, Farm Animals, Ferrets, Rabbits, and Rodents*, p. 237-242. USDA, NAL, AWIC. ISBN: 090076791X.

NAL call no: aHV4701.A94-no. 2

Descriptors: toys, enrichment, animal welfare, products.

Environmental enrichment in a female ferret colony. 1993. Amos, J. *Welfare and Science Proceedings of the Fifth Symposium of the Federation of European Laboratory Animal Science Associations*, Jun. 8-11, 1993, p. 467-468. ISBN: 19531152404.

NAL call no: QL55.F43-1993

Descriptors: ferrets, housing, stocking density, identification.

FEEDING / NUTRITION / METABOLISM

Acetaminophen UDP-glucuronosyltransferase in ferrets: Species and gender differences, and sequence analysis of ferret UGT1A6. 2001. Court, M.H. *Journal of Veterinary Pharmacology and Therapeutics*, Dec. 2001, v. 24 (6), p. 415-422. ISSN: 0140-7783.

NAL call no: SF915.J63

Descriptors: metabolism, molecular genetics, digestive system, liver.

Ferret nutrition in small animal practice. 2001. Hebel, D.; Wolf, P. *Kleintierpraxis*, 2001, v. 46 (4), p. 225-229. ref. ISSN: 0023-2076.

Language: German

Descriptors: animal feeding, energy requirements, nutrient requirements, ferrets.

Ferret nutrition. 1999. Bell, J.A. *Veterinary Clinics of North America Exotic Animal Practice*, Jan. 1999, v. 2 (1), p. 169-192. viii. ISSN: 1094-9194.

Descriptors: gastrointestinal transit, meat, nutritional requirements, diet.

All-trans beta carotene is absorbed preferentially to 9-cis beta carotene, but the latter accumulates in the tissues of domestic ferrets (*Mustela putorius furo*). 1998. Erdman, J.W. Jr.; Thatcher, A.J.; Hofmann, N.E.; Lederman, J.D.; Block, S.S.; Lee, C.M.; Mokady, S. *Journal of Nutrition*,

1998, v. 128 (11), p. 2009-2013. ref. ISSN: 0022-3166.

Descriptors: tissues, isomers, diets, absorption, kidneys, liver, ferrets.

Ferrets (*Mustela putorius furo*) inefficiently convert beta-carotene to vitamin A. 1998. Lederman, J.D.; Overton, K.M.; Hofmann, N.E.; Moore, B.J.; Thornton, J.; Erdman, J.W. Jr. *Journal of Nutrition*. 1998, v. 128 (2), p. 271-279. ref. ISSN: 0022-3166.

Descriptors: retinol, absorption, carotenoids, diets, esters, metabolism.

Food allergy in a ferret. 1998. Dutton, M.A. *Exotic Pet Practice*, 1998, v. 3 (5), p. 39. ref.

Descriptors: allergies, case reports, food allergies, pruritus, oedema, diets.

The crystalline form of carotenes and the food matrix in carrot root decrease the relative bioavailability of beta- and alpha-carotene in the ferret model. 1996. Zhou, J.R.; Gugger, E.T.; Erdman, J.W., Jr. *Journal of the American College of Nutrition*, 1996, v. 15 (1), p. 84-91. ref. ISSN: 0731-5724.

Descriptors: beta-carotene, alpha-carotene, carrots, availability, ferrets.

The effects of dietary taurocholate, fat, protein, and carbohydrates on the distribution and fate of dietary beta-carotene in ferrets. 1996. Lakshman, M.R.; Liu, Q.H.; Sapp, R.; Somanchi, M.; Sundaresan, P.R. *Nutrition and Cancer*, 1996, v. 26 (1), p. 49-61. ref. ISSN: 0163-5581.

NAL call no: RC262.C5N8

Descriptors: beta carotene, diets, absorption, neoplasms, liver, lungs.

Ensuring proper nutrition in ferrets. 1996. Bell, J.A. *Veterinary Medicine*, Dec. 1996, v. 91 (12), p. 1098-1103. ref. ISSN: 8750-7943.

NAL call no: 41.8 M69

Descriptors: ferrets, nutrition, nutrient requirements, digestion, urolithiasis.

In vivo biosynthesis of retinoic acid from beta-carotene involves an excentric cleavage pathway in ferret intestine. 1996. Hebuterne, X.; Wang, XiangDong; Smith, D.E.H.; Tang, GuangWen; Russell, R.M.; Wang, X.D.; Tang, G.W. *Journal of Lipid Research*, 1996, v. 37 (3), p. 482-492. ref. ISSN: 0022-2275.

NAL call no: 381 J8282

Descriptors: retinol, vitamins, metabolism, beta-carotene, small intestine.

Supplementing ferrets with canthaxanthin affects the tissue distribution of canthaxanthin, other carotenoids, vitamin A and vitamin E. 1995. Tang, G.; Blanco, M.C.; Fox, J.G.; Russell, R.M. *Journal of Nutrition*, 1995, v. 125 (7), p. 1945-1951. ref. ISSN: 0022-3166.

Descriptors: canthaxanthin, retinol vitamin E, tissues, supplements.

Vitamin E enhances the lymphatic transport of beta-carotene and its conversion to vitamin A in the ferret. 1995. Wang, X.D.; Marini, R.P.; Hebuterne, X.; Fox, J.G.; Keinsky, N.I.; Russell, R.M. *Gastroenterology*, Mar. 1995, v. 108 (3), p. 719-726. ref. ISSN: 0016-5085.

Descriptors: retinol, vitamins, transport, beta-carotene, conversion, lymph.

Effect of high fat diet on liver microsomal oxygenation in ferret. 1994. Shavila, J.; Ioannides, C.; King, L.J.; Parke, D.V. *Xenobiotica*, Nov. 1994, v. 24 (11), p. 1063-1076. ISSN: 0094-8254.

Descriptors: metabolism, analysis, blood, chemistry, enzymology, liver.

High concentrations of vitamin A esters circulate primarily as retinyl stearate and are stored primarily as retinyl palmitate in ferret tissues. 1994. Ribaya, Mercado J.D.; Blanco, M.C.; Fox, J.G.; Russell, R.M. *Journal of the American College of Nutrition*, 1994, v. 13 (1), p. 83-86. ref. ISSN: 0731-57124.

Descriptors: vitamins, retinol, retinyl, esters, tissues.

Distribution of beta-carotene and vitamin A in lipoprotein fractions of ferret serum. Effect of beta-carotene supplementation. 1993. Ribaya, Mercado, J.D.; Lopez, Miranda J.; Ordova, J.M.; Blanco, M.C.; Fox, J.G.; Russell, R.M. *Annals of the New York Academy of Science*, 1993, v. 691, p. 232-237. ref. ISSN: 0077-8923.

NAL call no: 500 N484

Descriptors: retinol, distribution, lipoproteins, blood, beta-carotene, supplements.

Evaluation of the bioavailability of natural and synthetic forms of beta-carotenes in a ferret model. 1993. White, W.S.; Peck, K.M.; Ulman, E.A.; Erdman, J.W. Jr. *Annals of the New York Academy of Science*, 1993, v. 691, p. 229-231. ref. ISSN: 0077-8923.

NAL call no: 500 N484

Descriptors: carotenes, beta-carotene, availability, beverages, ferrets.

Interactions of oral beta-carotene and canthaxanthin in ferrets. 1993. White, W.S.; Peck, K.M.; Bierer, T.L.; Gugger, E.T.; Erdman, J.W. Jr. *Journal of Nutrition*, 1993, v. 123 (8), p. 1405-1413. ref. ISSN: 0022-3166.

Descriptors: beta-carotene, canthaxanthin, carnivores, ferrets.

Retinoic acid regulates retinol metabolism via feedback inhibition of retinol oxidation and stimulation of retinol esterification in ferret liver. 1993. Wang, X.D.; Krinsky, N.I.; Russell, R.M. *Journal of Nutrition*, Jul. 1993, v. 123 (7), p. 1277-1285. ref. ISSN: 0022-3166.

NAL call no: 389.8 J82

Descriptors: retinoic acid, retinol, metabolism, feedback, liver cells, ferret.

Beta-carotene, retinol and retinyl ester concentrations in serum and selected tissues of ferrets fed beta-carotene. 1992. Ribaya, Mercado L.D.; Fox, J.G.; Rosenblad, W.D.; Blanco, M.C.; Russell, R.M. *Journal of Nutrition*, 1992, v. 122 (9), p. 1898-1903. ref. ISSN: 0022-3166.

Descriptors: beta-carotene, blood, tissues, retinol.

Beta-carotene uptake and tissue distribution in ferrets (*Mustela putorius furo*). 1992. Gugger, E.T.; Bierer, T.L.; Henze, T.M.; White, W.S.; Erdman, J.W. Jr. *Journal of Nutrition*, 1992, v. 122 (1), p. 115-119. ref. ISSN: 0022-3166.

Descriptors: animal models, beta-carotene, absorption.

The effects on some physiological and performance indices of adding formic acid-preserved feed to the meat ration of ferrets. 1992. Glowinska, B.; Bieguszewski, H. *Progress in Fur Animal Science*, 1992, Suppl. 9, p. 289-292. ref. ISSN: 0801-5341.

Descriptors: furbearing animals, acid-base equilibrium, meat byproducts, formic acid.

Studies on the protein and energy level in diet for ferrets (*Mustela putorius furo*). 1992. Barabasz, B. *Akademia Rolnicza w Rakowie*, 1992, 75 p.

Language: Polish.

Descriptors: rations, energy value, protein content, nutritional requirements.

Effect of arginine free diet on plasma and tissue amino acids in young and adult ferrets. 1991. Deshmukh, D.R.; Sarnaik, A.P.; Mukhopadhyay, A.; Portoles, M. *Journal of Nutritional Biochemistry*, 1991, v. 2 (2), p. 72-78. ref. ISSN: 0955-2863.

Descriptors: amino acids, blood, tissues, arginine deprivation, age.

Effects of dietary calcium concentration and calcium-phosphorous ratio on growth and selected plasma and bone measures in young European ferrets (*Mustela putorius furo*). 1990. Edfors, C.H.; Ullrey, D.E.; Aulerich, R.J. *Journal of Zoo and Wildlife Medicine*, 1990, v. 21 (2), p. 185-191. ref. ISSN: 1042-7260.

Descriptors: phosphorous, plasma, bones, calcium, nutritional disorders.

Effects of arginine-free diet on urea cycle enzymes in young and adult ferrets. 1989. Deshmukh, D.R.; Rusk, C.D. *Enzyme*, 1989, v. 41 (3), p. 168-174. ref. ISSN: 0013-0432.

NAL call no: QP601.E52

Descriptors: diet, arginine, urea, enzyme activity, ferret.

Nitrite cured meats as a source of endogenously and exogenously formed -nitrosoproline in the ferret. 1989. Perciballi, M.; Conboy, J.J.; Hotchkiss, J.H. *Food and Chemical Toxicology*, Feb. 1989, v. 27 (2), p. 111-116. ref. ISSN: 0278-6915.

NAL call no: 391.8 F73

Descriptors: cured meats, nitrites, proline, carcinogens, urine, ferrets.

Nutrition. 1988. McLain, D.E.; Thomas, J.A.; Fox, J.G. *Biology and Diseases of the Ferret*, 1988, Lea & Febiger. Philadelphia. p. 135-152. ref. ISBN: 0812111397.

NAL call no: SF407.F39B56

Descriptors: ferrets, animal nutrition, diets, feed composition.

Effect of arginine free diet on ammonia metabolism in young and adult ferrets. 1986. Thomas, P.E.; Deshmukh, D.R. *Journal of Nutrition*, Apr. 1986, v. 116 (4), p. 545-551. ref. ISSN: 0022-3166.

NAL call no: 389.8 J82

Descriptors: nutrient deficiencies, arginine, ammonia, metabolism, ferrets.

NEOPLASIA / TUMORS

Perianal apocrine gland adenocarcinoma in a ferret. 2001. Graham, J.E.; Roberts, R.E.; Wilson, G.H.; Boyd, K.L. *Compendium on Continuing Education for the Practicing Veterinarian*, Apr. 2001, v. 23 (4), p. 359-362. ref. ISSN: 0193-1903.

NAL call no: SF601.C66

Descriptors: anal glands, adenocarcinoma, radiotherapy, metastasis, adrenal glands.

C-cell carcinoma (medullary thyroid carcinoma) associated with multiple endocrine neoplasms in a ferret (*Mustela putorius*). 2000. Fox, J.G.; Dangler, C.A.; Synder, S.B.; Richard, M.J.;

Thilsted, J.P. *Veterinary Pathology*, May 2000, v. 37 (3), p. 278-282. ref. ISSN: 0300-9858.
NAL call no: 41.8 P27

Descriptors: neoplasms, endocrine cells, carcinoma, thyroid gland, symptoms, treatment.

Ferret Insulinoma. 2000. Hoefer, H.L. *Proceedings of the North American Veterinary Conference, Eastern States Veterinary Association*, 2000, v. 14, p. 1007-1008. ref.

NAL call no: SF605.N672

Descriptors: ferrets, neoplasms, pancreas.

Neoplasia in ferrets. 2000. Antinoff, N.; Bonagura, J.D. *Kirk's Current Veterinary Therapy XIII: Small Animal Practice*, 2000, p. 1149-1152. ref. ISBN: 0721655238.

Descriptors: neoplasms, endocrine diseases, adrenal gland diseases, skin diseases.

Thoracic vertebral chordoma in a domestic ferret (*Mustela putorius furo*). 2000. Pye, G.W.; Bennett, R.A.; Roberts, G.D.; Terrell, S.P. *Journal of Zoo and Wildlife Medicine*, 2000, v. 31 (1), p. 107-111, ref. ISSN: 1042-7260.

Descriptors: neoplasms, spinal diseases, case reports, immunohistochemistry.

Hypereosinophilic syndrome with Hodgkin's-like lymphoma in a ferret. 1999. Blomme, E.A.G.; Foy, S.H.; Chappell, K.H.; La Perle, K.M.D. *Journal of Comparative Pathology*, Feb. 1999, v. 120 (2), p. 211-217. ref. ISSN: 0021-9975.

NAL call no: 41.8 J82

Descriptors: lymphoma, eosinophils, eosinophilia, ferrets, case report.

Unusual presentation of hemangiosarcoma in a ferret. 1999. Vannevel, J. *Canadian Veterinary Journal*, Nov. 1999, v. 40 (11), p. 808. ref. ISSN: 0008-5286.

NAL call no: 41.8 R3224

Descriptors: sarcoma, perineum, atypical course, metastasis, radiography.

Ferret neoplasia. 1998. Hoefer, H.L. *Proceedings of the North American Veterinary Conference, Eastern States Veterinary Association*, 1998, v. 12, p. 836-837. ref.

NAL call no: SF605.N672

Descriptors: ferrets, neoplasms.

Immunophenotypic characterization of lymphomas from the mediastinum of young ferrets. 1998. Coleman, L.A.; Erdman, S.E.; Schrenzel, M.D.; Fox, J.G. *American Journal of Veterinary Research*, Oct. 1998, v. 59 (10), p. 1281-1286. ref. ISSN: 0002-9645.

NAL call no: 41.8 Am3A

Descriptors: mediastinum, lymphoma, immunopathology, antibodies, ferrets.

Insulinomas in ferrets. 1998. Morrissey, J.K. *Exotic Pet Practice*, 1998, v. 3 (11), p. 81-82, 84. ref.

Descriptors: neoplasms, clinical aspects, symptoms, diagnosis, treatment.

Insulinoma in the ferret: Clinical findings and treatment comparison of 66 cases. 1998. Weiss, C.A.; Williams, B.H.; Scott, M.V. *Journal of the American Animal Hospital Association*, Nov./Dec. 1998, v. 34 (6), p. 471-475. ref. ISSN: 0587-2871.

NAL call no: SF601.A5

Descriptors: insulin secretion, neoplasms, drug therapy, diagnosis, disease course.

- Neoplastic diseases in ferrets: 574 cases (1986-1997).** 1998. Li, X.T.; Fox, J.G.; Padrid, P.A. *Journal of the American Veterinary Medical Association*, May 1, 1998, v. 212 (9), p. 1402-1406. ref. ISSN: 0003-1488.
NAL call no: 41.8 Am3
Descriptors: ferrets, neoplasms, incidence, sex differences, age differences.
- Update on ferret insulinoma.** 1998. Hoefer, H.L. *Proceedings of the North American Veterinary Conference*, Eastern States Veterinary Association, 1998, v. 12, p. 834. ref.
NAL call no: SF605.N672
Descriptors: ferrets, neoplasms, pancreas.
- Heliobacter mustelae-associated gastric adenocarcinoma in ferrets (*Mustela putorius furo*).** 1997. Fox, J.G.; Dangler, C.A.; Sager, W.; Borkowski, R.; Gliatto, J.M. *Veterinary Pathology*, May 1997, v. 34 (3), p. 225-229. ref. ISSN: 0300-9858.
NAL call no: 41.8 P27
Descriptors: gastric adenocarcinoma, ferrets, Heliobacter.
- Immunohistochemistry of pancreatic islet cell tumors in the ferret (*Mustela putorius furo*).** 1997. Andrews, G.A.; Myers, N.C. III; Chard-Bergstrom, C. *Veterinary Pathology*, Sept. 1997, v. 34 (5), p. 387-393. ref. ISSN: 0300-9858.
NAL call no: 41.8 P27
Descriptors: ferrets, pancreas islets, neoplasms, immunohistochemistry, insulin.
- Lymphoma with orbital involvement in two ferrets.** 1997. McCalla, T.L.; Erdman, S.E.; Kawasaki, T.A.; Coleman, L.A.; Li, X.; Nelson, W.B.; Fox, J.G. *Veterinary Comparative Ophthalmology*, 1997, v. 7 (1), p. 36-38. ref. ISSN: 1076-4607.
NAL call no: SF891.P78
Descriptors: ferrets, lymphoma, eyes, symptoms, clinical aspects, disease course.
- Lymphosarcoma in the pet ferret.** 1997. Rosenthal, K. *Veterinary Cancer Society Newsletter*, 1997, v. 21 (1), p. 10-11. ref.
Descriptors: diagnosis, treatment, neoplasms, lymphosarcoma, case reports.
- Clinical and pathologic findings in ferrets with lymphoma: 60 cases (1982-1994).** 1996. Erdman, S.E.; Brown, S.A.; Kawasaki, T.A.; Moore, F.M.; Li, X.; Fox, J.G. *Journal of the American Veterinary Medical Association*, Apr. 15, 1996, v. 208 (8), p. 1285-1289. ref. ISSN: 0003-1488.
NAL call no: 41.8 Am3
Descriptors: lymphoma, symptoms, pathology, ferrets, age differences.
- A cluster of cases of juvenile mediastinal lymphoma on a ferret colony.** 1996. Batchelder, M.A.; Erdman, S.E.; Li, X.; Fox, J.G. *Laboratory Animal Science*, Jun. 1996, v. 46 (3), p. 271-274. ref. ISSN: 0023-6764.
NAL call no: 410.9 P94
Descriptors: ferrets, lymphoma, mediastinum, histopathology, disease transmission.
- Cutaneous epitheliotropic lymphoma in a ferret.** 1996. Rosenbaum, M.R.; Affolter, V.K.; Osborne, A.L.; Beeber, N.L. *Journal of the American Veterinary Medical Association*, Oct. 15, 1996, v. 209 (8), p. 1441-1444. ref. ISSN: 0003-1488.

NAL call no: 41.8 Am3

Descriptors: lymphoma, dermatitis, symptoms, diagnosis, treatment.

Diagnosis and treatment of insulin-secreting pancreatic islet cell tumors in ferrets: 57 cases (1986-1994). 1996. Caplan, E.R.; Petereon, M.E.; Mullen, H.S.; Quesenberry, K.E.; Rosenthal, K.L.; Hoefler, H.L.; Moroff, S.D. *Journal of the American Veterinary Medical Association*, 1996, v. 209 (10), p. 1741-1745. ref. ISSN: 0003-1488.

NAL call no: 41.8 AM3

Descriptors: diagnosis, treatment, surgery, symptoms, neoplasms, pancreatic diseases.

Granular cell tumor in the central nervous system of a ferret (*Mustela putorius furo*). 1996. Sleeman, J.M.; Clyde, V.L.; Brenneman, K.A. *Veterinary Record*, Jan. 20, 1996, v. 138 (3), p. 65-66. ref. ISSN: 0042-4900.

NAL call no: 41.8 V641

Descriptors: ferrets, neoplasms, brain, symptoms, histopathology, case reports.

***Helicobacter mustelae*-associated gastric lymphoma in four ferrets.** 1996. Erdman, S.E.; Correa, P.; Li, X.; Coleman, L.A.; Fox, J.G. *Laboratory Animal Science*, 1996, v. 46 (4), p. 455-456. ISSN: 0023-6764.

NAL call no: 410.9 P94

Descriptors: laboratory animals, neoplasms, disease models, lymphoma, stomach diseases.

Imaging of adrenal neoplasia and complications associated with hyperadrenocorticism in ferrets.

1996. Neuwirth, L. *Veterinary Cancer Society Newsletter*, 1996, v. 19 (4), p. 5-6. ref.

Descriptors: diagnosis, ultrasonic, radiography, neoplasms, adrenal gland diseases.

Multiple splenic myelolipomas in a ferret (*Mustela putorius furo*). 1996. Li, X.; Fox, J.G.; Erdman, S.E. *Laboratory Animal Science*, Feb. 1996, v. 46 (1), p. 101-103. ref. ISSN: 0023-6764.

NAL call no: 410.9 P94

Descriptors: ferrets, lipoma, diagnosis, histopathology.

Pancreatic beta cell tumor in ferrets: 20 cases (1986-1994). 1996. Ehrhart, N.; Withrow, S.J.; Ehrhart, E.J.; Wimsatt, J.H. *Journal of the American Veterinary Medical Association*, Nov. 15, 1996, v. 209 (10), p. 1737-1740. ref. ISSN: 0003-1488.

NAL call no: 41.8 Am3

Descriptors: ferrets, pancreas, neoplasms, symptoms, medical treatment.

Serous biliary cystadenoma in ferrets (*Mustela putorius furo*). 1996. Fox, J.G.; Li, X.; Murphy, J.C. *Contemporary Topics in Laboratory Animal Science*, Nov. 1996, v. 35 (6), p. 78-79. ref. ISSN: 1060-0558.

NAL call no: SF405.5.A23

Descriptors: neoplasms, biliary system, ferrets, histopathology.

Synovial sarcoma in a ferret. 1996. Lloyd, M.H.; Wood, C.M. *Veterinary Record*, Dec. 21-28, 1996, v. 139 (25), p. 627-628. ref. ISSN: 0042-4900.

NAL call no: 41.8 V641

Descriptors: ferrets, sarcoma, stifle, histopathology, malignant course.

- Cutaneous lymphoma in a ferret (*Mustela putorius furo*).** 1995. Li, X.; Fox, J.G.; Erdman, S.E.; Aspros, D.G. *Veterinary Pathology*, 1995, v. 32 (1), p. 55-56. ref. ISSN: 0300-9858.
NAL call no: 41.8 P27
Descriptors: ferrets, lymphoma, skin, histopathology, case reports
- Evaluation of urinary cortisol:Creatinine ratios for the diagnosis of hyperadrenocorticism associated with adrenal gland tumors in ferrets.** 1995. Gould, W.J.; Reimers, T.J.; Bell, J.A.; Lawrence, H.J. Randolph, J.F.; Rowland, P.H.; Scarlett, J.M. *Journal of the American Veterinary Medical Association*, Jan. 1, 1995, v. 206 (1), p. 42-46. ISSN: 0003-1488.
NAL call no: 41.8 AM3
Descriptors: adrenal gland hyperfunction, creatinine, urine, adenocarcinoma.
- Ferret insulinoma.** 1995. Rosenthal, K. *Proceedings of the North American Veterinary Conference, Eastern States Veterinary Association*, 1995, v. 9, p. 581.
NAL call no: SF605.N672
Descriptors: ferrets, pancreas, neoplasms.
- Insulinoma in dogs, cats, and ferrets.** 1995. Elie, M.S.; Zerbe, C.A. *Compendium on Continuing Education for the Practicing Veterinarian*, Jan. 1995, v. 17 (1), p. 51-59. ref. ISSN: 0193-1903.
NAL call no: SF601.C66
Descriptors: dogs, cats, ferrets, pancreas islets, adenoma, symptoms, drug therapy.
- Large granular lymphocyte leukemia in a ferret.** 1995. Boone, L.I.; Barthel, R.; Helman, R.G.; Drew, M. *Veterinary Clinical Pathology*, 1995, v. 24 (1), p. 6-10. ref. ISSN: 0275-6382.
NAL call no: SF601. A54
Descriptors: leukemia, ferrets, histopathology, case reports.
- A light microscopical, ultrastructural and immunohistochemical study of spindle-cell adrenocortical tumours of ferrets.** 1995. Gliatto, J.M.; Alroy, J.; Schelling, S.H.; Engler, S.J.; Dayal, Y. *Journal of Comparative Pathology*, Aug. 1995, v. 113 (2), p. 175-183. ref. ISSN: 0021-9975.
NAL call no: 41.8 J82
Descriptors: neoplasms, adrenal cortex, histopathology, ultrastructure.
- Liposarcoma arising from the mandibular bone marrow in a ferret.** 1995. Fuentealba, C.; Blue, McLendon A. *Canadian Veterinary Journal*, Dec. 1995, v. 36 (12), p. 779-780. ref. ISSN: 0008-5286.
NAL call no: 41.8 R3224
Descriptors: mandible, sarcoma, surgery, histopathology, ferrets.
- Thymoma in two ferrets.** 1995. Taylor, T.G.; Carpenter, J.L. *Laboratory Animal Science*, Aug. 1995, v. 45 (4), p. 363-365. ref. ISSN: 0023-6764.
NAL call no: 410.9 P94
Descriptors: neoplasms, thymus gland, mediastinum, ferrets, case reports.
- Transmission of a chronic lymphoproliferative syndrome in ferrets.** 1995. Erdman, S.E.; Reimann, K.A.; Moore, F.M.; Kanki, P.J.; Yu, Qianchun; Fox, J.G.; Yu, Q.C. *Laboratory*

Investigation, 1995, v. 72 (5), p. 539-546. ref. ISSN: 0023-6837.

Descriptors: experimental infections, neoplasms, lymphoma, disease transmission.

Two cases of pyloric adenocarcinoma in the ferret (*Mustela putorius furo*). 1995. Sleeman, J.M.; Clyde, V.L.; Jones, M.P.; Mason, G.L. *Veterinary Record*, Sept. 9, 1995, v. 137 (11), p. 272-273. ref. ISSN: 0042-4900.

NAL call no: 41.8 V641

Descriptors: carcinoma, stomach, symptoms, diagnosis, histopathology.

Use of a vascular access system for administration of chemotherapeutic agents to a ferret with lymphoma. 1995. Rassnick, K.M.; Gould, W.J.; Flanders, J.A. *Journal of the American Veterinary Medical Association*, 1995, v. 206 (4), p. 500-504. ref. ISSN: 0003-1488.

NAL call no: 41.8 AM3

Descriptors: lymphoma, catheterization, antineoplastic agents, drug therapy.

Evaluation of serum estradiol concentrations in alopecic ferrets with adrenal gland tumors.

1994. Wagner, R.A.; Dorn, D.P. *Journal of the American Veterinary Medical Association*, 1994, v. 205 (5), p. 703-707. ref. ISSN: 0003-1488.

NAL call no: 41.8 AM3

Descriptors: hormones, alopecia, skin diseases, neoplasms, adrenal gland.

How we treat an insulinoma in the ferret. 1994. Rosenthal, K. *Proceedings of the North American Veterinary Conference*, Eastern States Veterinary Association, 1994, p. 822.

NAL call no: SF605.N672

Descriptors: ferrets, neoplasms, medical treatment.

Ultrasonographic detection of adrenal gland tumors in two ferrets. 1994. Ackermann, J.; Carpenter, J.W.; Godshalk, C.P.; Harms, C.A. *Journal of the American Veterinary Medical Association*, Oct. 1, 1994, v. 205 (7), p. 1001-1003. ref. ISSN: 0003-1488.

NAL call no: 41.8 Am3

Descriptors: adrenal glands, carcinoma, ultrasonic diagnosis, ferrets.

Adrenal neoplasia in seven ferrets. 1993. Neuwirth, L.; Isaza, R.; Bellah, J.; Ackerman, N.; Collins, B. *Veterinary Radiology and Ultrasound*, Sept./Oct. 1993, v. 34 (5), p. 340-346. ref. ISSN: 1058-8183.

NAL call no: SF757.8.A4

Descriptors: adrenal glands, adenoma, carcinoma, ultrasonography, adrenalectomy.

Estradiol-17 beta-secreting adrenocortical tumor in a ferret. 1993. Lipman, N.S.; Marini, R.P.; Murphy, J.C.; Zhibo, Z.; Fox, J.G. *Journal of the American Veterinary Medical Association*, Dec. 11, 1993, v. 203 (11), p. 1552-1555. ref. ISSN: 0003-1488.

NAL call no: 41.8 Am3

Descriptors: neoplasms, adrenal cortex, symptoms, diagnosis, ferrets.

Histopathologic features and post-surgical sequelae of 57 cutaneous neoplasms in ferrets (*Mustela putorius furo*). 1993. Parker, G.A.; Picut, C.A. *Veterinary Pathology*, Nov. 1993, v. 30 (6), p. 499-504. ref. ISSN: 0300-9858.

NAL cal no: 41.8 P27

Descriptors: ferrets, neoplasms, skin.

- Hyperadrenocortism associated with adrenocortical tumor or nodular hyperplasia of the adrenal gland in ferrets: 50 cases (1987-1991).** 1993. Rosenthal, K.L.; Peterson, M.E.; Quesenberry, K.E.; Hillyer, E.V.; Beeber, N.L.; Moroff, S.D.; Lothrop, C.D. *Journal of the American Veterinary Medical Association*, 1993, v. 203 (2), p. 271-275. ref. ISSN: 0003-1488.
NAL call no: 41.8 AM3
Descriptors: hyperplasia, adrenal gland diseases, neoplasms, adrenal glands.
- Spontaneous neoplasia in the ferret (*Mustela putorius furo*).** 1993. Beach, J.E.; Greenwood, B. *Journal of Comparative Pathology*, Feb. 1993, v. 108 (2), p. 133-147. ref. ISSN: 0021-9975.
NAL call no: 41.8 J82
Descriptors: ferret, neoplasms.
- Unilateral adrenalectomy as a treatment for adrenocortical tumors in ferrets: Five cases (1990-1992).** 1993. Lawrence, H.J.; Gould, W.J.; Flanders, J.A.; Rowland, P.H.; Yeager, A.E. *Journal of the American Veterinary Medical Association*, 1993, v. 203 (2), p. 267-270. ref. ISSN: 0003-1488.
NAL call no: 41.8 AM3
Descriptors: adenoma, alopecia, adrenal gland diseases, neoplasms, adrenalectomy.
- Adrenal tumors and insulinomas in ferrets.** 1992. Hillyer, E.V. *Journal of Small Exotic Animal Medicine*, 1992, v. 2 (1), p. 37-38.
Descriptors: pancreatic diseases, neoplasms, adrenal gland diseases.
- Combination doxorubicin and orthovoltage radiation therapy, single-agent doxorubicin, and high-dose vincristine for salvage therapy of ferret.** 1992. Hutson, C.A.; Kopit, M.J.; Walder, E.J. *Journal of the American Animal Hospital Association*, Jul./Aug. 1992, v. 28 (4), p. 365-368. ref. ISSN: 0587-2781.
NAL call no: SF601.A5
Descriptors: ferrets, drug therapy, lymphosarcoma, case reports.
- Concurrent mammary glands hyperplasia and adrenocortical carcinoma in a domestic ferret.** 1992. Mor, N.; Qualls, C.W. Jr.; Hoover, J.P. *Journal of the American Veterinary Medical Association*, Dec. 15, 1994, v. 201 (12), p.1911-1912. Ref. ISSN: 0003-1488.
NAL call no: 41.8 Am3
Descriptors: carcinoma, adrenal cortex, mammary gland, symptoms.
- Malignant lymphoma in ferrets: Clinical and pathological findings in 19 cases.** 1992. Erdman, S.E.; Moore, F.M.; Rose, R.; Fox, J.G. *Journal of Comparative Pathology*, Jan. 1992, v. 106 (1), p. 37-47. ref. ISSN: 0021-9975.
NAL call no: 41.8 J82
Descriptors: lymphoma, symptoms, pathology, age, etiology, ferrets.
- Pancreatic adenocarcinoma with metastasis in two ferrets.** 1992. Noefel, H.L.; Patnaik, A.K.; Lewis, A.D. *Journal of the American Veterinary Medical Association*, Aug. 1, 1992, v. 201 (3), p. 466-467. ref. ISSN: 0003-1488.
NAL call no: 41.8 Am3
Descriptors: carcinoma, pancreas, metastasis, symptoms, diagnosis, ferrets.

Pyloric adenocarcinoma in a ferret. 1992. Rice, L.E.; Stahl, S.J.; McLeod, C.G. Jr. *Journal of the American Veterinary Medical Association*, Apr. 15, 1992, v. 200 (8), p. 1117-1118. ref. ISSN: 0003-1488.

NAL call no: 41.8 Am3

Descriptors: ferrets, stomach, adenoma, carcinoma, case reports.

Bleomycin chemotherapy for metastatic squamous cell carcinoma in a ferret. 1991. Hamilton, T.A.; Morrison, W.B. *Journal of the American Veterinary Medical Association*, Jan. 1, 1991, v. 198 (1), p. 107-108. ref. ISSN: 0003-1488.

NAL call no: 41.8 AM3

Descriptors: drug therapy, antineoplastic agents, carcinomas.

A histomorphological and immunohistochemical study of chordoma in twenty ferrets (*Mustela putorius furo*). 1991. Dunn, D.G.; Harris, R.K.; Meis, J.M.; Sweet, D.E. *Veterinary Pathology*, 1991, v. 28 (6), p. 467-473. ref. ISSN: 0300-9858.

NAL call no: 41.8 P27

Descriptors: disease models, histochemistry, neoplasms, tail.

Immunohistochemical and morphologic features of chordomas in ferrets (*Mustela putorius furo*). 1990. Herron, A.J.; Brunnert, S.R.; Ching, S.V.; Dillberger, J.E.; Altman, N.H. *Veterinary Pathology*, Jul. 1990, v. 27 (4), p. 284-286. ill. ref. ISSN: 0300-9858.

NAL call no: 41.8 P27

Descriptors: neoplasms, spine, spinal diseases, keratin, immunohistochemistry.

Immunocytochemistry of pancreatic endocrine tumors in three domestic ferrets (*Mustela putorius furo*). 1990. Fix, A.S.; Harms, C.A. *Veterinary Pathology*, May 1990, v. 27 (3), p. 199-201. ill. ref. ISSN: 0300-9858.

NAL call no: 41.8 P27

Descriptors: ferrets, neoplasms, pancreas, histopathology.

Leiomyosarcoma in a domestic ferret: Morphologic and immunocytochemical diagnosis. 1990. Brunnert, S.R.; Herron, A.J.; Altman, N.H. *Laboratory Animal Science*, Mar. 1990, v. 40 (2), p. 208-210. ill. ref. ISSN: 0023-6764.

NAL call no: 410.9 P94

Descriptors: ferrets, sarcoma, shoulders, histopathology, immunodiagnosis.

Splenic lymphosarcoma in a ferret. 1990. Hammond, D.L. *Journal of the American Animal Hospital Association*, Jan./Feb. 1990, v. 26 (1), p. 101-103. ref. ISSN: 0587-2871.

NAL call no: SF601.A5

Descriptors: ferrets, lymphosarcoma, spleen, differential diagnosis.

Transitional cell carcinoma of the renal pelvis in a ferret. 1990. Bell, R.C.; Moeller, R.B. *Laboratory Animal Science*, Sept. 1990, v. 40 (5), p. 537-538. ref. ISSN: 0023-6764.

NAL call no: 410.9 P94

Descriptors: ferrets, carcinoma, kidneys, histopathology, case reports.

Neoplasia in ferrets. 1988. Goad, M.E.P.; Fox, J.G. *Biology and Diseases of the Ferret*, James D. Fox (ed). Lea & Febiger, Philadelphia, 1988. P. 274-288. ill. ref. ISBN: 0812111397.

NAL call no: SF407.F39B56

Descriptors: ferrets, neoplasms, skin diseases, abdomen, endocrine diseases.

NEUROLOGICAL / NERVOUS SYSTEM

- Architecture and callosal connections of visual areas 17, 18, 19 and 21 in the ferret (*Mustela putorius*).** 2002. Innocenti, Giorgio M.; Manger, Paul R.; Masiello, Italo; Colin, Isabelle; Tettoni, Laurent. *Cerebral Cortex*, Apr. 2002, v. 12 (4), p. 411-422. ISSN: 1047-3211.
Descriptors: cerebral cortex anatomy, histology, corpus callosum physiology.
- Developmental regulations of brain nitric oxide synthase expression in the ferret thalamic reticular nucleus.** 2002. McCauley, Anita K.; Meyer, Georgia A.; Godwin, Dwayne W. *Neuroscience Letters*, Mar. 8, 2002, v. 320 (3), p. 151-155. ISSN: 0304-3940.
Descriptors: metabolism, ultrastructure, physiology, growth, development.
- Distribution of metabotropic glutamate receptors in the superior colliculus of the adult rat, ferret and cat.** 2002. Cirone, J.; Sharp, C.; Jeffery, G.; Salt, T.E. *Neuroscience*, 2002, v. 109 (4), p. 779-786. ISSN: 0306-4522.
Descriptors: astrocytes metabolism, glutamic acid metabolism, ferret.
- Neurochemical phenotypes of neurons in medullary reticular formation controlling diaphragm and abdominal muscles in the ferret.** 2002. Billig, Isabelle; Card, J. Patrick; Yates, Bill J. *FASEB Journal*, Mar. 2002, v. 16 (5), p. A810. ISSN: 0892-6638. www.fasebj.org/.
Descriptors: nervous system, respiration, neural coordination, abdominal muscles.
- Neuromodulatory role of serotonin in the ferret thalamus.** 2002. Monckton, James E.; McCormick, David A. *Journal of Neurophysiology*, Apr. 2002, v. 87 (4), p. 2124-2136. ISSN: 0022-3077.
Descriptors: serotonin physiology, Thalamus physiology, drug effects, ferret.
- Relationship of local inhibitory and excitatory circuits to orientation preference maps in ferret visual cortex.** 2002. Roerig, B.; Chen, B. *Cerebral Cortex*, Feb. 2002, v. 12 (2), p. 187-198. ISSN: 1047-3211.
Descriptors: nervous system, sense organs, visual cortex, striate cortex, ferret.
- The representation of the visual field in three extrastriate areas of the ferret (*Mustela putorius*) and the relationship of retinotopy and field boundaries to callosal connectivity.** 2002. Manger, Paul R.; Kiper, Daniel; Masiello, Italo; Murillo, Luis; Tettoni, Laurent; Hunyadi, Zolt; Innocenti, Giorgio M. *Cerebral Cortex*, Apr. 2002, v. 12 (4), p. 423-437. ISSN: 1047-3211.
Descriptors: ferret physiology, corpus callosum physiology, retina physiology.
- Retinal waves: Implications for synaptic learning rules during development.** 2002. Butts, Daniel A. *Neuroscientist*, Jun. 2002, v. 8 (3), p. 243-253. ISSN: 1073-8584.
Descriptors: development, nervous system, cell biology, sense organs, ferret.
- Sexually dimorphic activation of galanin neurones in the ferret's dorsomedial preoptic area/anterior hypothalamus after mating.** 2002. Bakker, J.; Woodley, S.K.; Kelliher, K.R.; Baum, M.J. *Journal of Neuroendocrinology*, Feb. 2002, v. 14 (2), p. 116-125. ISSN: 0953-8194.
Descriptors: nervous system, anterior hypothalamus, preoptic area, activation, ferret.

- Dual medullary dorsal horn neuronal responses to iontophoretically applied dynorphin-A in ferrets.** 2001. Ahn, D.K.; Maixner, W.; Light, A.M.; Narhi, M. *Society for Neuroscience Abstracts*, 2001, v. 27 (1), p. 424. ISSN: 0190-5295.
Descriptors: nervous system, medullary dorsal horn, dynorphin A.
- Effect of speed on response of V1 neurons to motion of contour and terminator cues.** 2001. White, L.E.; Basole, A.; Fitzpatrick, D. *Society for Neuroscience Abstracts*, 2001, v. 27 (1), p. 429. ISSN: 0190-5295.
Descriptors: nervous system, neuron, optical map, V12 neuron, contour motion.
- Ferrets apparently lack atypical glomerulin in the main olfactory bulb.** 2001. Woodley, S.K.; Chang, Y.M.; Baum, M.J. *Hormones and Behavior*, 2001, v. 39 (4), p. 319. ISSN: 0018-506X.
Descriptors: behavior, endocrine system, nervous system, olfactory bulb, ferret.
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Descriptors: ferrets, bladder, abnormalities, cysts, symptoms, histopathology.
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Descriptors: ferrets, bladder, catheterization.

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NAL call no: QL876.B5

Descriptors: female animals, mating, neurons, ovulation, pheromones.

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Descriptors: behavior, sense organs, nares occlusion, odors.

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Descriptors: reproductive system, glucose-6-phosphate isomerase, endocrine system.

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Descriptors: mating partner preferences, sexual differentiation, olfaction, ferret.

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NAL call no: 442.8 J8222

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Descriptors: behavior, endocrine system, sensory reception, ferrets.

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NAL call no: QP251.A1T5

Descriptors: embryo transfer, assisted reproduction method, efficiency.

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Descriptors: animal reproduction, development, physiology, biochemistry.

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NAL call no: QP351.B45

Descriptors: intracerebroventricular administration, mate selection, sexual behavior.

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NAL call no: 442.8 J8222

Descriptors: embryos, catheters, cervix, embryo transfer, recipients, biotechnology.

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NAL call no: 410.9 P94

Descriptors: toxemia, anaemia, pregnancy, hypocalcaemia, stress.

Sex difference and testosterone modulation of scent investigation and scent marking behaviors in the ferret. 1999. Chang, Y.M.; Kalliher, K.R.; Baum, M.J. *Society for Neuroscience Abstracts*, 1999, v. 25 (1-2), p. 71. ISSN: 0190-5295.

Descriptors: scent marking behavior, reproductive system, endocrine system.

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Descriptors: mammary glands, amino acids, cloning, milks, lipase.
- Sex difference and testosterone modulation of pheromone-induced neuronal Fos in the ferret's main olfactory bulb and hypothalamus.** 1998. Kelliher, K.H.; Chang, Y.M.; Wersinger, S.H.; Baum, M.J. *Biology of Reproduction*, v. 59 (6), p. 1454-1463. ISSN: 0006-3363.
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Descriptors: vomeronasal organ, Fos protein, hypothalamus, olfactory bulb.
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Descriptors: ferrets, artificial insemination, endoscopes, catheters, pregnancy rate.
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NAL call no: 41.8 AM3A

Descriptors: diagnostic techniques, blood pressure, monitoring, blood gases.

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Descriptors: ferrets, animal proteins, binding proteins, carotenoids, purification.

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Descriptors: Angiotensin II pharmacology, myocardium metabolism, ferrets.

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Descriptors: carrots, alpha carotene, beta carotene, bioavailability, ferrets.
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Descriptors: diet, taurocholic acid, dietary fat, protein, liver, lungs, absorption.
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Descriptors: heart rate physiology, blood pressure physiology, ferrets.
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Descriptors: hydrogen metabolism, hypertrophy, right ventricular metabolism.
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Descriptors: calcium metabolism, myocardial contraction, ventricular function.
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NAL call no: RA565.A1J6
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NAL call no: QR1.I57

Descriptors: ferrets, bacterial diseases, mutants, virulence, urease, stomach mucosa.

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Descriptors: antibiotics, digestive disorders, liquid diets, tube feeding, ferrets.

Evaluating and stabilizing the critical ferret: Basic diagnostic and therapeutic techniques.

2000. Benson, K.G.; Paul-Murphy, J.; Ramer, J.C. *Compendium on Continuing Education for the Practicing Veterinarian*, May 2000, v. 22 (5), p. 490-497. ref. ISSN: 0193-1903.

NAL call no: SF601.C66

Descriptors: blood sampling, radiography, ultrasonography, catheterization, fluid therapy.

Evaluating and stabilizing the critical ferret: Initial assessment, differential diagnosis and diagnostic plan. 2000. Benson, K.G.; Paul-Murphy, J.; Ramer, J.C. *Compendium on Continuing Education for the Practicing Veterinarian*, Mar. 2000, v. 22 (3), p. 252-259. ref. ISSN: 0193-1903.

NAL call no: SF601.C66

Descriptors: clinical examination, intensive care, dyspnea, vomiting, anorexia.

Managing ferret toxicoses. 2000. Richardson, J.; Balabuszko, R. *Exotic DVM*. 2000, v. 2 (4), p. 23-26. ref. ISSN: 1521-1363.

Descriptors: poisoning, therapy, ferrets.

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NAL call no: QL55.A1L33

Descriptors: ferrets, enteral feeding, veterinary equipment, sutures.

Oxyglobin R administration for the treatment of anemia in ferrets. 2000. Orcutt, C. *Exotic DVM*, 2000, v. 2 (3), p. 44-46. Proceedings of the International conference on Exotics, May 12-14, 2000. ref. ISSN: 1521-1363.

Descriptors: anemia, haemoglobin, blood transfusion, ferrets.

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Descriptors: tuberculosis, BCG vaccine, bacterial diseases, vaccination.

Cryosurgery of the ferret adrenal gland. 1999. Weiss, C. *Exotic DVM*, 1999, v. 1 (5), p. 27-28.

ref. ISSN: 1521-1363.

Descriptors: adrenal glands, diseases, cryogenic surgery, neoplasms, treatment.

Ferret abdominal surgical procedures. I. Adrenal gland and pancreatic beta-cell tumors.

1999. Wheeler, J.; Bennett, R.A. *Compendium on Continuing Education for the Practicing Veterinarian*, Sept. 1999, v. 21 (9), p. 815-822, ref. ISSN: 0193-1903.

NAL call no: SF601.C66

Descriptors: surgical operations, neoplasms, lymph nodes, adrenal gland disease.

Ferret abdominal surgical procedures. II. Gastrointestinal foreign bodies, splenomegaly, liver biopsy, cystotomy, and ovariohysterectomy.

1999. Wheeler, J.; Bennett, R.A. *Compendium on Continuing Education for the Practicing Veterinarian*, Nov, 1999, v. 21 (11), p. 1049-1057. ref. ISSN: 0193-1903

NAL call no: SF601.C66

Descriptors: ferrets, abdomen, surgery, splenomegaly, liver, biopsy, urolithiasis.

Ferret adrenal removal using temporary occlusion of the caudal vena cava. 1999. Bennett, R.A. *Exotic DVM*, 1999, v. 1 (3), p. 71-74. ISSN: 1521-1363.

Descriptors: vena cava, adrenal glands, surgery, ferrets.

Ferrets. Clinical pathology and sample collection. 1999. Morrissey, J.K.; Ramer, J.C.

Veterinary Clinics of North America : Exotic Animal Practice, 1999, v. 2 (3), p. 553-564. ISSN: 1094-9194.

Descriptors: diagnosis, methods, blood, parasitology, urine, analysis, physiology.

Ferrets. Examination and preventive medicine. 1999. Ivey, E.; Morrissey, J. *Veterinary Clinics of North America: Exotic Animal Practice*, May 1999, v. 2 (2), p. 471-494. ISSN: 1094-9194.

Descriptors: diseases, prevention, anatomy, histology, restraint, physical examination.

Management of ferret GIT disorders. 1999. Rosenthal, K.L. *Proceedings of the North American Veterinary Conference*, Eastern States Veterinary Association, 1999, v. 13, p.847-848. ref.

NAL call no: SF605.N672

Descriptors: ferrets, gastrointestinal diseases, treatment.

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Descriptors: hyperplasia, neoplasms, adrenal glands, drug therapy.

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NAL call no: 41.8 AM3A

Descriptors: bismuth, clarithromycin, biopsy, drug therapy, drug combinations.

- A clinical guide to the pet ferret.** 1997. Ryland, L.M.; Bernard, S.L.; Gorham, J.R. *Practical Exotic Animal Medicine*, 1997, p. 122-129, 155. Ref. ISBN: 1884254330.
NAL call no: SF981.P72 1997
Descriptors: ferrets, care, veterinary medicine.
- Dermatology of rabbits, rodents, and ferrets.** 1997. Burgmann, P. *Practical Exotic Animal Medicine*, 1997, p. 174-194. ref. The Compendium Collection. ISBN: 1884254330.
NAL call no: SF981.P72 1997
Descriptors: skin diseases, veterinary medicine, pets.
- Ferrets, rabbits and rodents: Clinical medicine and surgery.* 1997. Hillyer, Elizabeth V.; Quesenberry, Katherine E. Philadelphia: W.B. Saunders, c.1997, xvi, 432 p. ill. ISBN: 0721640230.
NAL call no: SF997.5.F47F47 1997
Descriptors: ferret diseases, surgery, rabbits, rodents.
- The collapsed ferret.** 1996. Rosenthal, K. *Proceeding of the North American Veterinary Conference*, Eastern States Veterinary Association, 1996, v. 10, p. 875.
NAL call no: SF605.N672
Descriptors: ferrets, collapse, differential diagnosis.
- Diagnosis and treatment of insulin-secreting pancreatic islet cell tumors in ferrets: 57 cases (1986-1994).** 1996. Hoefer, H.L.; Moroff, S.D. *Journal of the American Veterinary Medical Association*, Nov. 15, 1996, v. 209 (10), p. 1741-1745. ref. ISSN: 0003-1488.
NAL call no: 41.8 Am3
Descriptors: pancreas islets, neoplasms, symptoms, diagnosis, treatment, prognosis.
- Diagnosing and treating endocrine diseases in ferrets.** 1996. Kolmstetter, C.M.; Carpenter, J.W.; Morrissey, J.K. *Veterinary Medicine*, 1996, v. 91 (12), p. 1104-1110. ref. ISSN: 8750-7943.
NAL call no: 41.8 M69
Descriptors: pancreatic diseases, neoplasms, diabetes mellitus, endocrine diseases,
- Ethylene glycol toxicosis in multiple ferrets (*Mustela putorius furo*).** 1996. Larsen, R.S. *Exotic Pet Practice*, 1996, v. 1(11), p. 7. ref.
Descriptors: case reports, ethylene glycol, poisoning, ferrets.
- Preventive medicine of ferrets.** 1996. Quesenberry, K. *Proceedings of the North American Veterinary Conference*, Eastern States Veterinary Association, 1996, v. 10, p. 869.
NAL call no: SF605.N672
Descriptors: preventive medicine, vaccination.
- Restraint and diagnostic techniques for ferrets.** 1996. Morrissey, J.K.; Carpenter, J.W.; Kolmstetter, C.M. *Veterinary Medicine*, Dec. 1996, v. 91 (12), p. 1084, 1086-1087, 1090-1092, 1094-1097. ref. ISSN: 8750-7943.
NAL call no: 41.8 M69
Descriptors: restraint of animals, anesthesia, diagnostic techniques, hematology.
- Vaccination of black-footed ferret (*Mustela nigripes*) x Siberian polecat (*M. Eversmanni*) hybrids and domestic ferrets (*M. putorius furo*) against canine distemper.** 1996. Williams, E.S. ; Anderson, S.L.; Cavender, J.; Lynn, C.; List, K.; Hearn, C.; Appel,

M.J.G. *Journal of Wildlife Diseases*, 1996, v. 32 (3), p. 417-423. ref. ISSN: 0090-3558.
NAL call no: 41.9 W64B
Descriptors: live vaccines, inactivated vaccines, hybrids, wild animals, antibodies.

Diagnostic exercise: Ataxia and incoordination in ferrets. 1995. Rozengurt, N.; Stewart, D.; Sanchez, S. *Laboratory Animal Science*, Aug. 1995, v. 45 (4), p. 432-436. ref. ISSN: 0023-6764.
NAL call no: 410.9 P94
Descriptors: ataxia, lung lesions, brain, liver, differential diagnosis, Aleutian disease.

The domestic ferret: A veterinary introduction. 1995. Gandolfi, R.C. *California Veterinarian*, 1995, v. 49 (6), p. 7-10. ref. ISSN: 0008-1612.
Descriptors: husbandry, diets, radiography, oestrus, helminthoses, neoplasms.

Ferret respiratory disease diagnosis. 1995. Rosenthal, K. *North American Veterinary Conference*, 1995, v. 9, p. 582-583.
NAL call no: SF605.N672
Descriptors: ferrets, respiratory disease, diagnosis.

Ophthalmic disorders of rabbits and ferrets. 1995. Murphy, C.J. *Proceedings of the North American Veterinary Conference*, Eastern States Veterinary Association, 1996, v. 9, p. 682-683. ref.
NAL call no: SF605.N672
Descriptors: eye diseases, animal anatomy.

Use of a vascular access system for administration of chemotherapeutic agents to a ferret with lymphoma. 1995. Rassnick, K.M.; Gould, W.J. III; Flanders, J.A. *Journal of the American Veterinary Medical Association*, Feb. 15, 1995, v. 206 (4), p. 500-504. ref. ISSN: 0003-1488.
NAL call no: 41.8 Am3
Descriptors: drug therapy, drug delivery systems, jugular vein, lymphoma.

Critical care of ferrets, rabbits, and rodents. 1994. Harrenstien, L. *Seminars in Avian and Exotic Pet medicine*, Oct. 1994, v. 3 (4), p. 217-228. ill. ISSN: 1055-937X.
Descriptors: ferret, Rodentia, treatment techniques, diseases, disorders, critical care.

Ferret preventive medicine and clinical techniques. 1994. Hillyer, E.V. *Proceedings of the North American Veterinary Conference*, Eastern States Veterinary Medical Association, 1994, p. 817-819. ref.
NAL call no: SF605.N672
Descriptors: ferrets, preventive medicine, medical treatment.

Ferret senior citizens and their special needs. 1994. Brown, S. *Journal of Small Exotic Animal Medicine*, 1994, v. 2 (4), p. 169-170.
Descriptors: aging, neoplasms, animal welfare.

- Radiographic diagnosis in ferrets.** 1994. Rosenthal, K. *Proceedings of the North American Veterinary Conference*, Eastern States Veterinary Association, 1994, p. 825-826.
NAL call no: SF605.N672
Descriptors: ferrets, radiography, diagnosis.
- A technique for vasectomizing male ferrets.** 1994. Ryland, L.M.; Lipinski, E. *Canine Practice*, Jan./Feb. 1994, v. 19 (1), p. 25-27. ISSN: 1057-6622.
NAL call no: SF991.A1C3
Descriptors: ferrets, vasectomy.
- Working up the ferret with a large spleen.** 1994. Hillyer, E.V. *Proceedings of the North American Veterinary Conference*, Eastern States Veterinary Medical Association, 1994, p. 819-821. ref.
NAL call no: SF605.N672
Descriptors: ferrets, splenomegaly.
- Cataracts in a laboratory colony of ferrets.** 1993. Miller, P.E.; Marlar, A.B.; Dubielzig, R.R. *Laboratory Animal Science*, 1993, v. 43 (6), p. 562-568. ref. ISSN: 0023-6764.
NAL call no: 410.9 P94
Descriptors: eye diseases, cataracts, pathology, eye lens, laboratory animals.
- A practitioner's guide to rabbits and ferrets.** 1993. Jenkins, Jeffery R.; Brown, Susan A. *The Professional Library Series*, American Animal Hospital Association, c1993. 111 p. col. ill. ISBN: 0941451348.
NAL call no: SF997.5.R2J46 1993
Descriptors: rabbit diseases, ferret diseases.
- Veterinary care of birds, rodents, rabbits, ferrets and guinea pigs. May 5, 1993.** Pass, David; Scott, Lyndy. *Foundation for Continuing Veterinary Education*, Pub. no. 93/2. c1995 ii, 116 p. ill. Perth, W.A. ISBN: 0869053566.
NAL call no: SF981.V481993
Descriptors: veterinary therapeutics, pet medicine.
- Veterinary care for ferrets.** 1993. McKay, J.E. *The Veterinary Record*, Mar.1993, v. 132 (10), p. 256. ISSN: 0042-4900.
NAL call no: 41.8 V641
Descriptors: ferrets, veterinary medicine.
- Adrenal function in ferrets: Plasma cortisol and corticosterone responses to synthetic ACTH administration.** 1992. Rosenthal, K.L.; Peterson, M.E.; Quesenberry, K.E.; Lothrop, C.D. *Journal of Veterinary Internal Medicine*, 1992, v. 6 (2), p. 109. ISSN: 0891-6640.
Descriptors: corticotropin, blood chemistry, hydrocortisone, adrenal cortex hormones
- Distemper vaccination in ferrets.** 1992. Oxenham, M. *The Veterinary Record*, 1992, v. 130 (25), p. 563-564. ref. ISSN: 0042-4900.
NAL call no: 41.8 V641
Descriptors: viral diseases, vaccines, ferrets.

- Gastrointestinal foreign body in ferrets: 25 cases (1986-1990).** 1992. Mullen, H.S.; Scavelli, T.D.; Quesenberry, K.E.; Hillyer, E. *Journal of the American Animal Hospital Association*, 1992, v. 28 (1), p. 13-19. ref. ISSN: 0587-2871.
Descriptors: surgical operations, foreign bodies, obstruction, case reports.
- Transfusions in exotic species.** 1992. Hofer, H.L. *Problems in Veterinary Medicine*, 1992, v. 4 (4), p. 625-635. ref. ISSN: 1041-0228.
Descriptors: haematology, haemorrhage, blood groups, blood transfusion, ferrets.
- Bleomycin chemotherapy for metastatic squamous cell carcinoma in a ferret.** 1991. Hamilton, T.A.; Morrison, W.B. *Journal of the American Veterinary Medical Association*, Jan. 1, 1991, v. 198 (1), p. 107-108. ref. ISSN: 0003-1488.
NAL call no: 41.8 Am3
Descriptors: drug therapy, antineoplastic agents, dosage, metastasis, lymph nodes.
- Tonometry in clinically normal ferrets (*Mustela putorius furo*).** 1991. Sapienza, J.S.; Porcher, D.; Collins, B.R.; Gum, G.G.; Brooks, D.E. *Progress in Veterinary and Comparative Ophthalmology*, 1991, v. 1 (4), p. 291-294. ref.
Descriptors: sense organs, pressure, measurements, eyes.
- Evaluation of an inactivated rabies virus vaccine in domestic ferrets.** 1990. Rupprecht, C.E.; Gilbert, J.; Pitts, R.; Marshall, K.R.; Koprowski, H. *Journal of the American Veterinary Medical Association*, May 15, 1990, v. 196 (10), p. 1614-1616. ref. ISSN: 0003-1488.
NAL call no: 41.8 AM3
Descriptors: ferrets, rabies, inactivated vaccines, disease prevention.
- Thyroid and adrenal function tests in adult male ferrets.** 1990. Heard, D.J.; Collins, B.; Chen, D.L.; Conigliaro, J. *American Journal of Veterinary Research*, Jan. 1990, v. 51 (1), p. 32-35. ref. ISSN: 0002-9645.
NAL call no: 41.8 Am3A
Descriptors: thyroid function, adrenals, diagnostic techniques, hormones.
- Coma in a ferret after infestation of Cannabis.** 1988. Smith, R.A. *Comparative Toxicology*, Oct. 1988, v. 30 (5), p. 486. ref. ISSN: 0145-6296.
NAL call no: SF601.A47
Descriptors: ingestion toxicity, coma, cannabis, ferret.
- Diagnostic exercise: A bony growth of the skull in a ferret.** 1987. Jensen, W.A.; Myers, R.K.; Merkley, D.F. *Laboratory Animal Science*, Dec. 1987, v. 37 (6), p. 780-781. ill. ref. ISSN: 0023-6764.
NAL call no: 410.9 P94
Descriptors: skulls, bone disorders, neoplasms, diagnosis, ferrets.
- The domestic ferret: A guide for the veterinary practitioner.** 1987. Cornish, K.C.; Hagemoser, W.A. *Iowa State University Veterinarian*, 1987, v. 49 (2), p. 94-104. ref. ISSN: 0099-5266.
NAL call no: 41.8 V6425
Descriptors: ferrets, guide, animal husbandry.

- Adrenalectomy in the ferret.** 1985. Fillion, D.L.; Hoar, R.M. *Laboratory Animal Science*, Jun. 1985, v. 35 (3), p. 294-295. ref. ISSN: 0023-6764.
NAL call no: 410.9 P94
Descriptors: ferrets, adrenalectomy.
- Intravenous infusion in ferrets.** 1985. Greener, Y.; Gilles, B. *Lab Animal*, Sept. 1985, v. 14 (6), p. 41-44. ill. ref. ISSN: 0093-7355.
NAL call no: QL55.A1L33
Descriptors: injections, blood sampling, catheters, pain, stress, laboratory techniques.
- A procedure for descendering ferrets.** 1984. Rowley, J. *Modern Veterinary Practice*, May 1984, v. 65 (5), p. 389-390. ISSN: 0362-8140.
NAL call no: 41.8 N812
Descriptors: ferrets, descendering procedure.
- Anal sac resection in the ferret (Surgical technique).** 1983. Creed, J.E. *Current Techniques in Small Animal Surgery*, Lea & Febiger, Philadelphia (2nd ed.) P. 526-528. ill. ref.
NAL call no: SF911.A1C8
Descriptors: anal sac resection, ferret.
- Contact transmission of distemper virus in ferrets.** 1978. Shen, D.T.; Gorham, J.R. *Research in Veterinary Science*, Jan. 1978, v. 24 (1), p. 118-119. ref. ISSN: 0034-5288.
NAL call no: 41.8 R312
Descriptors: ferrets distemper virus, disease transmission.

VIRUSES

- DNA vaccination of ferrets with chimeric influenza A virus hemagglutinin (H3) genes.** 2002. Ljungberg, Karl; Kolmskog, Camilla; Wahren, Britta; van Amerongen, Geert; Baars, Marianne; Osterhaus, Albert; Linde, Annika; Rimmelzwaan, Guus. *Vaccine*, May 15, 2002, v. 20 (16), p. 2045-2052. ISSN: 0264-410X. www.elsevier.com/locate/vaccine.
Descriptors: immune system, molecular genetics, biochemistry.
- Pathogenesis of avian influenza A (H5N1) viruses in ferrets.** 2002. Zitzow, Lois A.; Rowe, Thomas; Morken, Timothy; Shieh, Wun Ju.; Zaki, Sherif.; Katz, Jacqueline M. *Journal of Virology*, May 2002, v. 76 (9), p. 4420-4429. ISSN: 0022-538X.
Descriptors: disease models, ferrets, influenza A, lung pathology, virus replication.
- Ferrets as a transmission model for influenza: Sequence changes in HA1 of type A (H3N2) virus.** 2001. Herlocher, M.L.; Elias, S.; Truscon, R.; Harrison, S.; Mindell, D.; Simon, C.; Monto, A.S. *Journal of Infectious Diseases*, 2001, v. 184 (5), p. 542-546. ISSN: 0022-1899.
Descriptors: animal models, disease transmission, influenza virus, ferrets.
- Pathogenesis of two strains of lion (*Panthera leo*) morbillivirus in ferrets (*Mustela putorius furo*).** 2001. Evermann, J.F.; Leathers, C.W.; Gorham, J.R.; McKeirnan, A.J.; Appel,

M.J.G. *Veterinary Pathology*, May 2001, v. 38 (3), p. 311-316. ref. ISSN: 0300-9858.

NAL call no: 41.8 P27

Descriptors: ferrets, morbillivirus, strains, pathogenesis, histopathology.

Serologic evaluation, efficacy, and safety of a commercial modified-live canine distemper vaccine in domestic ferrets. 2001. Wimsatt, Jeffery; Jay, Michele T.; Innes, Kim E.; Jessen, Michael; Collins, James K. *American Journal of Veterinary Research*, May 2001, v. 62 (5), p. 736-740. ISSN: 0002-9645.

NAL call no: 41.8 AM3A

Descriptors: distemper, prevention, symptoms, viral disease, ferret

Coronavirus-associated epizootic catarrhal enteritis in ferrets. 2000. Williams, B.H.; Kiupel, M.; West, K.H.; Raymond, J.T.; Grant, C.K.; Glickman, L.T. *Journal of the American Veterinary Medical Association*, Aug. 15, 2000, v. 217 (4), p. 526-530. ref. ISSN: 0003-1488.

NAL call no: 41.8 Am3

Descriptors: ferrets, coronavirus, enteritis, clinical aspects, lesions, etiology.

Definition of neuronal circuitry controlling the activity of phrenic and abdominal motoneurons in the ferret using recombinant strains of pseudorabies virus. 2000. Billig, I.; Foris, J.M.; Enquist, L.W.; Card, J.P.; Yates, B.J. *Journal of Neuroscience*, 2000, v. 20 (19), p. 7446-7454. ISSN: 0270-6474.

Descriptors: motor neurons, abdomen, circuits, phrenic nerve, ferrets.

Mucosal vaccination with recombinant poxvirus vaccines protects ferrets against symptomatic CDV infection. 1999. Welter, J.; Taylor, J.; Tartaglia, J.; Paoletti, E.; Stephensen, C.B. *Vaccine*, 1999, v. 17 (4), p. 308-318. ref. ISSN: 0264-410X.

Descriptors: recombinant vaccines, immunization, viral diseases, ferrets.

Oral administration of a prodrug of the influenza virus neuraminidase inhibitor GS 4071 protects mice and ferrets against influenza infection. 1998. Mendel, D.B.; Tai, C.Y.; Escarpe, P.A.; Li, W.; Sidwell, R.W.; Huffman, J.H.; Sweet, C.; Jakeman, K.J.; Merson, J.; Lacy, S.A.; Lew, W.; Williams, M.A.; Zhang, L.; Chen, M.S.; Bischofberger, N.; Kim, C.U. *Antimicrobial Agents and Chemotherapy*, 1998, v. 42 (3), p. 640-646. ISSN: 0066-4804.

Descriptors: exo-alpha-sialidase, GS-4071, antiviral agents, inhibitors, animal models.

Viral excretion in domestic ferrets (*Mustela putorius furo*) inoculated with a raccoon rabies isolate. 1998. Niezgoda, M.; Briggs, D.J.; Shaddock, J.; Rupprecht, C.E. *American Journal of Veterinary Research*, Dec. 1998, v. 59 (12), p. 1629-1632. ref. ISSN: 0002-9645.

NAL call no: 41.8 Am3A

Descriptors: ferrets, rabies virus, pathogenesis, brain, salivary glands, shedding.

- Pathogenesis of experimentally induced rabies in domestic ferrets.** 1997. Niezgodna, M.; Briggs, D.J.; Shaddock, J.; Dreesen, D.W.; Rupprecht, C.E. *American Journal of Veterinary Research*, 1997, v. 58 (11), p. 1327-1331. ref. ISSN: 0002-9645.
NAL call no: 41.8 AM3A
Descriptors: rabies, pathogenesis, diagnosis, brain, salivary glands, clinical aspects.
- Protective vaccination of ferrets against canine distemper with recombinant pox virus vaccines expressing H or F genes of rinderpest virus.** 1997. Jones, L.; Tenorio, E.; Gorham, J.; Yilama, T. *American Journal of Veterinary Research*, Jun. 1997, v. 58 (6), p. 590-593. ref. ISSN: 0002-9645.
NAL call no: 41.8 Am3A
Descriptors: ferrets, vaccination, recombinant vaccines, efficacy, safety, viral proteins.
- Identification of a DNA segment in ferret Aleutian disease virus similar to a hypervariable capsid region of mink Aleutian disease parvovirus.** 1996. Saifuddin, M.; Fox, J.G. *Archives of Virology*, 1996, v. 141 (7), p. 1329-1336. ref. ISSN: 0304-8608.
NAL call no: 448.3 Ar23
Descriptors: Aleutian disease virus, strains, genetic variation.
- Induction and relief of nasal congestion in ferrets infected with influenza virus.** 1995. Chen, K.S.; Bharaj, S.S.; King, E.C. *International Journal of Experimental Pathology*, Feb. 1995, v. 76 (1), p. 55-64. ISSN: 0959-9673.
Descriptors: rhinitis, nasal obstruction, influenza complications, drug therapy.
- Pathologic changes in ferrets exposed to pseudorabies virus.** 1976. Ohshima, K.; Gorham, J.R.; Henson, J.B. *American Journal of Veterinary Research*, May 1976, v. 37 (5), p. 591-596. ill. ISSN: 0002-9645.
NAL call no: 41.8 AM3A
Descriptors: ferrets, Aujeszky disease, experimental infection, lesions, histopathology.
- Quantitative studies of pseudorabies virus in mink, ferrets, rabbits and mice.** 1971. Goto, H.; Burger, D.; Gorham, J.R. *Japanese Journal of Veterinary Science*, Jun. 1971, v. 33 (3), p. 145-153. ISSN: 0021-5295.
NAL call no: 41.8 J27
Descriptors: laboratory animals, aujeszky virus.

SELECTED FERRET WEB SITES

The American Ferret Association.

www.ferret.org/

General information on the ferret, show lists, shelter lists, links, etc.

Ferret Books.

www.ferretbooks.com/

Books on general ferret care, books for veterinarians, etc.

Ferret Central.

www.ferretcentral.org/

FAQ's, photo gallery, resources and links to many information sources.

Ferret clinic.

www.ferretnews.org/clinic.html

By Drs Steven M. Sanders, Ruth Adams and Suzanne Lee, Cottage Veterinary Hospital. Information on ferret diseases and e-mail questions to Dr. Lee.

Ferret Doctor.

www.ferretdoctor.com/ferret/

By Dr. Weiss. Ferret medical information, publications, video on Spleenomegaly by Dr. Bruce Williams and others. Gastric ulcers/Heliobacter mustela and skin tumors. Medical FAQ index.

Ferret Health Care.

www.miamiferret.org/fhc/

Adrenal disease and Insuloma in the domestic ferret and other diseases and health conditions. Ferret blood values.

Ferret Net.

www.ferret.net

General ferret information, ferret mailing list, training ferrets, ferret medical information, products, organizations.

Ferret Owner's Manual.

www.thechipster.com/fert-man.html/

By Dick Bossart. Information on care, housing, food, behavior, vaccination, grooming, toys, health tips, etc.

Ferret Spleenomegaly FAQ.

www.rud.dk/ferrets/faqhtml/med/spleen.html

Information on spleenomegaly by Dr. Bruce Williams and others. Gastric ulcers/Heliobacter mustela and skin tumors. Medical FAQ index.

The Ferret Trading Post.

www.ferrettradingpost.com/

Food, supplies, treats, toys, hammocks, beds, care information.

Ferret Universe.

www.ferret-universe.com/

General information on ferret care, veterinary care, diseases, chat room and message board.

Ferret Web.

www.ferretweb.com

Information on health care, food and treats, homes and bedding, accessories.

Modern Ferret Magazine.

www.modernferret.com

Ferret lifestyle magazine. Care information, tips, How to articles, etc.

NetVet Ferrets.

<http://netvet.wustl.edu/ferret.htm>

From the Electronic Zoo site. Links to many ferret web sites and a very interesting web site overall.

Pathology of the Domestic Ferret.

www.afip.org/ferrets

By Bruce H. Williams, DVM. Medical consultation, feeding sick ferret, listing of veterinary resources by state, disease information, pathology and other information.

Totally Ferret.Com

www.totallyferret.com

Information on ferret nutrition and diets for ferrets, health and nutrition, links for ferret information and organizations.



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If the publications are not available from these sources, have your library submit requests to NAL with a statement indicating their non-availability. Submit one request per page following the information below.

Information for the Library (The following information is provided to assist your librarian in obtaining the required materials.)

Interlibrary Loan Service -- Photocopies are available on interlibrary loan for a fee. Submit a separate interlibrary loan form or request for each item. If the citation is from an NAL database (AGRICOLA, *Bibliography of Agriculture*, or the NAL Catalog) and the call number is given, please include it. Willingness to pay charges must be indicated on the form. Materials in NAL's collection are loaned only to other U.S. and Canadian libraries. The following materials are not loaned: serials; rare, reference, and reserve books; microforms; and proceedings of conferences or symposia. Photocopy or microform of non-circulating publications may be requested for a fee provided that the request does not exceed 50 pages per item. Request must also include copyright compliance -- Pre-printed forms must contain your signature to indicate copyright compliance. On e-mail requests include the complete Statement of Copyright Compliance ("I have read the warning on copyright restrictions and accept full responsibility for compliance."), **your full name, date, and telephone number in each request**. Libraries may indicate compliance by including the initials of one statement, either "CCL" for compliance with the copyright law or "CCG" for compliance with Copyright Guidelines or a statement that the request complies with U.S. Copyright Law or other acceptable copyright laws (i.e. IFLA, CLA, etc.). Libraries must also provide authorizing official's name. Requests will be rejected if this information is not included.

Charges:

- Photocopy from paper, or paper copy of microfilm and microfiche for domestic delivery -- \$13.00 up to 50 pages. Photocopy from paper, or paper copy of microfilm and microfiche for international delivery -- \$16.00 up to 50 pages. (International delivery via Internet is \$13.00.)
- Duplication of NAL-owned microfilm -- \$20.00 per reel
- Duplication of NAL-owned microfiche -- \$13.00 for each 5 fiche

Billing -- Charges include postage and handling, and are subject to change. Invoices are issued quarterly by the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Phone: (703) 605-6640. Establishing a deposit account with NTIS is encouraged. **DO NOT SEND PREPAYMENT.**

Send Requests to:

USDA, National Agricultural Library
Document Delivery Services Branch, PhotoLab
10301 Baltimore Ave., NAL Bldg.
Beltsville, Maryland 20705-2351

FAX: 301-504-5675
Ariel IP address: ariel.nal.usda.gov
E-mail: lending@nal.usda.gov

Contact the Access Services, Document Delivery Services Branch at (301) 504-6503 or via Internet at access@nal.usda.gov with questions or comments about this policy.



Services Available to Libraries, Institutions and Organizations

The National Agricultural Library (NAL) accepts requests from libraries and other organizations in accordance with the national and international interlibrary loan code and guidelines. In its national role, NAL supplies copies of agricultural materials not found elsewhere. Submit requests to major university libraries, national or provincial institutions or network sources prior to sending requests to NAL. If the needed publications are not available from these sources, submit requests to NAL with a statement indicating their non-availability.

Materials in NAL's collection are not loaned outside the United States; however, copies of materials may be provided. There is a limit of 50 pages per item to comply with copyright law.

AGLINET -- Requesters in countries with an AGLINET library are encouraged to make full use of that library and its networking capabilities. As an AGLINET participant, NAL provides free document delivery service for materials published in the United States to other AGLINET participants.

Requests -- Submit requests on the American Library Association (ALA) or the International Federation of Library Associations and Institutions (IFLA) interlibrary loan form, or via electronic mail, Ariel™, or facsimile. (See further details under *For Electronic Access and Delivery* below.)

Charges:

- Photocopy, paper copy of microfilm and microfiche – \$13.00 up to 50 pages if mailed to domestic address. \$16.00 if mailed to international address. \$13.00 if sent via Internet.
- Duplication of NAL-owned microfilm—\$20.00 per reel
- Duplication of NAL-owned microfiche—\$13.00 for each 5 fiche or portion thereof
- Loans – \$15.00 per loan

Billing -- Charges include postage and handling, and are subject to change. Invoices are issued quarterly by the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Phone: (703) 605-6640. Establishing deposit accounts with NTIS is encouraged. Annual billing is available on request by contacting NAL at the address below. **DO NOT SEND PREPAYMENT.** You will be invoiced.

For postal service delivery send requests to: USDA National Agricultural Library
PhotoLab
Document Delivery Services Branch
10301 Baltimore Ave., NAL Bldg.
Beltsville, Maryland 20705-2351

For electronic access and delivery :

The Document Delivery Services Branch accepts ILL requests from libraries via several electronic methods. All requests must comply with established routing and referral policies and procedures. A sample format for ILL requests follows.

INTERNET.....**lending@nal.usda.gov**
Start the subject line with one word format:

3 letter month abbreviation + day + NAL + # of request placed that day,

For Example: jul25NAL4 (if this is the fourth request on July 25).

For Example: jul 25NAL1-4 (if this is four requests submitted at one time)

National Agricultural Library Document Delivery Services Branch

Electronic
Files
Print Materials



OCLC.....AGL

TELEFACSIMILE.....301-504-5675

Requests can be created on standard ILL forms and then faxed. NAL will fill via FAX at no additional cost if FAX number is included on request. NAL will send up to 30 pages per article. If request exceeds 30 pages, NAL will ship via postal service. There is no RUSH service.

ARIEL™ariel.nal.usda.gov

NAL will fill the request via ARIEL™ if the ARIEL™ address is included in the request. NAL treats ARIEL™ at an alternative delivery mechanism--not an expedited service. NAL will send up to 30 pages per article via ARIEL™. If request exceeds 30 pages, NAL will ship via postal service.

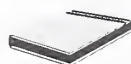
Required data elements for all requests:

- Complete mailing information for all requests regardless of method of delivery. (Borrower's Fax number or ARIEL™ IP address if delivery by either of these methods is desired.)
- Complete citation including verification (source of citation) and NAL call number if available.
- Date after which item is no longer needed.
- Copyright Compliance -- Pre-printed forms must contain your signature to indicate copyright compliance. On e-mail requests include the complete Statement of Copyright Compliance. Libraries may indicate compliance by including the initials of one statement, either "CCL" for compliance with the copyright law or "CCG" for compliance with Copyright Guidelines or a statement that the request complies with U.S. Copyright Law or other acceptable copyright laws (i.e. IFLA, CLA, etc.). Libraries must also provide authorizing official's name. Requests will be rejected if this information is not included.
- Maximum cost you are willing to pay for billing purposes.

Sample Electronic Mail Request

(Your Institutions Name)/NAL	JUL25NAL1	Date Not Needed After: 9/25/00
(Your Department or Office Your University Library or Institution City, State or Province, Country, Mail Code)		
Dr. Smith (patron name) Biology Dept. (patron office) Canadian Journal of Soil Science 1988 v 68(1): 17-27 (complete citation) De Jong, R. Comparison of two soil-water models under semi-arid growing conditions		
NAL Call Number: 56.8 C162 Ver: AGRICOLA		
Remarks: Not available at university or in region		
Authorized by: Charles Johnson	CCL	Maxcost: \$15.00
Date: mm/dd/yr		
(your) Phone# (301)555-1234		
(your) Fax#: (301)555-5678	(your) ARIEL IP Address: 111.222.333.444.555	

Contact the Access Services Librarian, Document Delivery Services Branch at (301) 504-6503 or via Internet at access@nal.usda.gov with questions or comments about this policy.



Services Available to USDA Employees

Copies or loans of NAL materials are provided free-of-charge in response to job-related requests. Requests for materials may be submitted onsite in person, electronically (via ARIEL™, email or facsimile) or by U.S. Postal Service. Employees eligible for service from a local library such as ARS field libraries or Forest Service libraries should make use of these resources before contacting the National Agricultural Library (NAL).

Copy Service

A single copy may be provided, in lieu of loan, from materials in the NAL collection. **All** requests must indicate compliance with copyright restrictions. Providing complete, accurate citations and the NAL call number for a document (if available) will speed the processing of requests.

Loan Service

The loan period for NAL materials is one month. Loans may be renewed for an additional month if no one else is waiting to use the material. Make renewal requests in writing or by calling (301) 504-5755 prior to the due date.

Booking Audiovisuals

Submit request at least 3-4 weeks before the intended show date when requesting specific audiovisual titles. Specify the particular format preferred if more than one format is given in the citation. To renew audiovisuals or inquire about booking audiovisual materials call (301) 504-5994.

Copies from Non-Circulating Materials

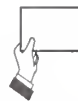
The following materials are non-circulating: Serials (except for USDA serials); rare, reference, and reserve books; microforms; and proceedings of conferences or symposia. Although these materials may not be borrowed if NAL only owns one copy, requests may be filled in the form of a microform or paper copy if your request indicates copyright compliance. Please indicate on your original request form if a copy of the material is acceptable in place of a loan.

Delivery Options

Electronic delivery is the preferred method of document delivery at NAL. Copies of journal articles and duplicated microform materials are delivered by facsimile, ARIEL™, or U.S. Postal Service. Copies of material will be delivered electronically whenever a fax number or ARIEL™ IP address appears on the request. Books borrowed from other sources will be delivered by FedEx to ensure their safety and receipt.

Interlibrary Borrowing or Purchase

If materials are not available at the NAL, we will try to obtain from another source. Turnaround time on interlibrary loans varies depending on location and availability of materials. If an item cannot be obtained through borrowing, NAL will attempt to purchase it, which also adds to the turnaround time.



How to Format Requests

All requests, regardless of format, **must** include the data elements listed below. A separate request form must be submitted for each document. When requesting via e-mail, however, more than one request form may be included in the same e-mail message.

Required Data Elements

- Borrower's name, full mailing address, and USDA or other eligible agency name. On e-mail requests this information must be in block format with at least two blank lines above and below so form may be used in a window envelope.
- Complete citation including verification (source of citation) and NAL call number if available.
- Date after which item is no longer needed.
- Copyright Compliance
Pre-printed forms must contain your signature to indicate copyright compliance. On e-mail requests include the complete Statement of Copyright Compliance ("I have read the warning on copyright restrictions and accept full responsibility for compliance"), **your full name, date, and telephone number in each request.** Libraries may indicate compliance by including the initials of one statement, either "CCL" for compliance with the copyright law or "CCG" for compliance with Copyright Guidelines. Requests will be rejected if this information is not included.
- Fax number or ARIEL™ IP address (if delivery by either of these methods is desired).

E-Mail Request Procedures

E-mail: lending@nal.usda.gov

Electronic mail requests may be sent via the Internet to the address above. Multiple requests may be included in a single message if they are complete unto themselves, contain all of the required data elements and closely resemble the samples below. Each request within a message must be formatted as an individual request complete with name, address, copyright compliance, and request ID number. Use the following standardized number format to identify the requests included in the e-mail message:

1st request sent to NAL on July 25 will be jul25NAL1

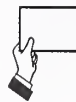
2nd request sent to NAL on July 25 will be jul25NAL2

Each request should cite this identification number on the request form. The number or range of numbers if more than one request is included in the same e-mail message (ex: jul25NAL1-4) should also appear in the subject line of the e-mail message.

ARIEL™ Request Procedures

NAL IP Address: ariel.nal.usda.gov

ARIEL™ is a document delivery software package (available from Research Libraries Group) which allows documents to be scanned and sent over the Internet. Requests can be submitted via email, mail, etc., or created on one of the standard forms listed under "Mail" below, scanned and sent to NAL's IP address. If an ARIEL™ 'receive only' package is loaded on to your computer you can receive and print articles at your desktop. If an ARIEL™ address is included in a request, NAL will deliver up to 30 pages per article via ARIEL™. If the article length exceeds 30 pages or cannot be scanned reliably, NAL will deliver the material via Postal Service. For more information about this software (including equipment requirements) visit RLG's ARIEL™ WWW site (http://www.rlg.org/cgi-bin/print_hit_bold.pl/ariel.html).



Mail & Fax Requests

Requests may be sent to NAL via the U.S. Postal Service or facsimile. Requests should be submitted using one of the standard forms listed below.

- AD-245 (available from USDA procurement)
- CALS Printout - copy & complete the address & copyright information from the AD245 on to the back of the CALS printout.
- Individual Request Form (IRF)
- ALA or FILLS Interlibrary Loan Form

Mailing Address:

Fax Number: (301) 504-5675

National Agricultural Library
Document Delivery Services Branch, 6th Floor
10301 Baltimore Avenue
Beltsville, MD 20705-2351

Sample Electronic Mail Request

JUL25NAL1

Date Not Needed After: 8/25/2000

Richard Smith
ARS, USDA
Research Station
Heartland, IA 56789

Canadian Journal of Soil Science 1988 v 68(1): 17-27
De Jong, R. Comparison of two soil-water models under semi-arid growing conditions.

NAL Call Number: 56.8 C162

Ver: AGRICOLA

I have read the warning on copyright restrictions and accept full responsibility for compliance

Richard Smith 7/25/00
(your) Fax#: (301)555-5678

Phone# (301)555-1234
(your) ARIEL IP Address: 111.222.333.444.555

